



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PCI Industries Inc d/b/a Pottorff
5101 Blue Mound Road
Fort Worth, TX 76106

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model ECV-645-MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. ECV-645-MD NOA, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/13/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
10/15/2015

NOA No. 14-0605.11
Expiration Date: January 22, 2020
Approval Date: January 22, 2015
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **ECV-645-MD NOA**, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/13/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of Model ECV-645-MD Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **C8134.01-801-18**, dated 02/24/2014, signed and sealed by Vinu J. Abraham, P.E.
2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550 of a Model ECV-645 Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **C3038.02-801-44**, dated 11/02/2012, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. ECV-545-MD louver structural calculations prepared by Rice Engineering, dated 10/22/2014, signed and sealed by Wayne K. Helmila, P.E.
2. ECV-545-MD louver calculations prepared by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

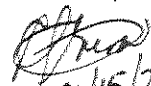
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Test report on impact test per AMCA 540 of a Model ECV-645-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **C6155.01-801-18**, dated 10/21/2013, signed and sealed by Vinu J. Abraham, P.E.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 05/14/2014, signed and sealed by L. David Rice, P.E.
2. No financial interest letter issued by Rice Engineering, dated 05/14/2014, signed and sealed by L. David Rice, P.E.


01/15/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0605.11

Expiration Date: January 22, 2020
Approval Date: January 22, 2015

1:10 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - POTTORFF REV. 5\

NOTES:

1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 150 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201, TAS 202, TAS 203, AMCA 540, & AMCA 550 FOR USE WITHIN HIGH VELOCITY HURRICANE-AFFECTED ZONES DEFINED BY THE FLORIDA BUILDING CODE.
2. ALL VARIATIONS ARE LARGE MISSILE IMPACT RESISTANT.
3. UNITS OF MEASURE ARE IN FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
4. IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
5. IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
6. TO PREVENT GALVANIC CORROSION, ELECTROCHEMICALLY DISSIMILAR MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE PROTECTED BY PAINT, GASKETING OR OTHER MEANS PER THE FLORIDA BUILDING CODE.
7. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
8. MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

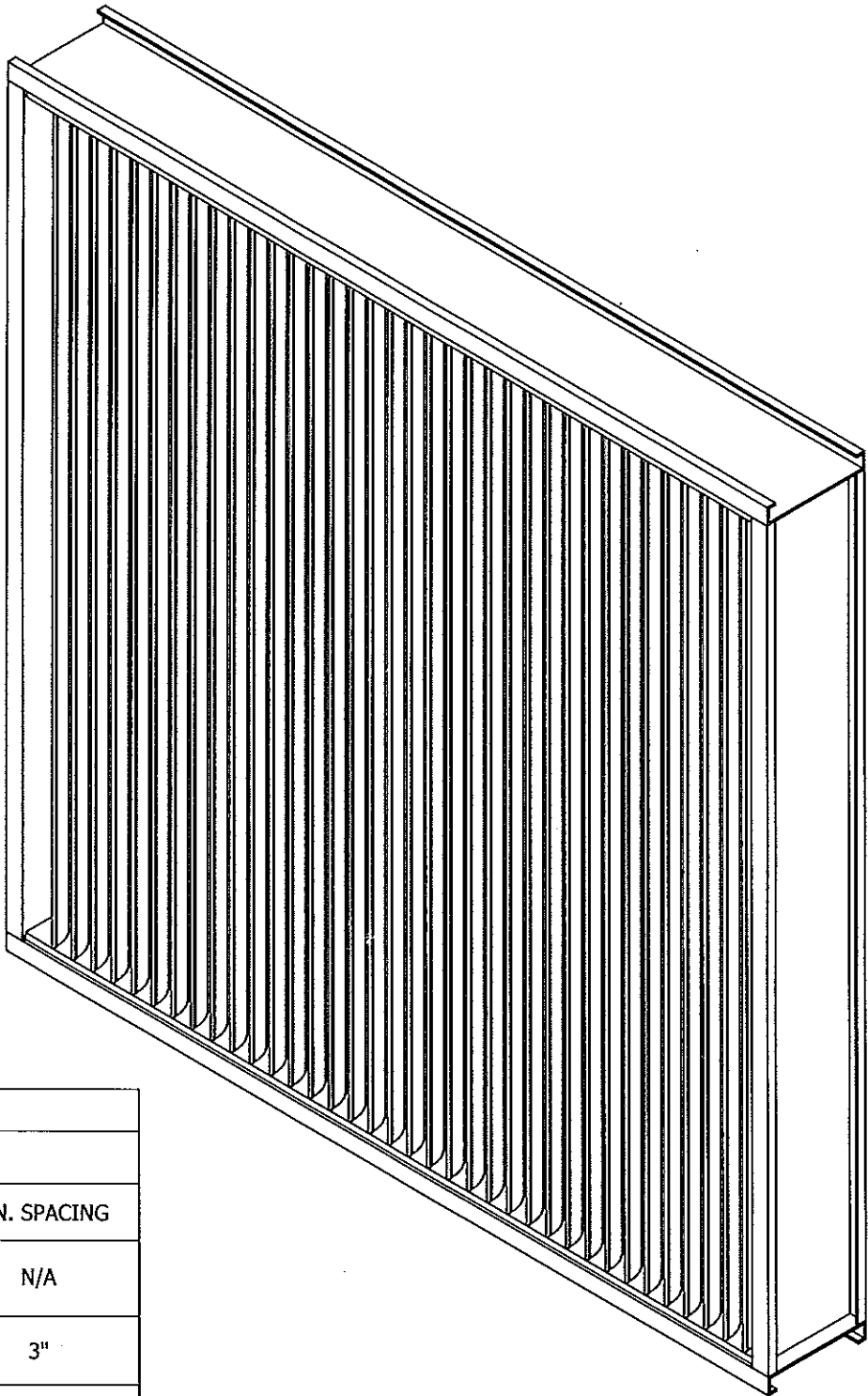


TABLE 3

ANCHOR SCHEDULE

SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MIN. SPACING
STEEL (12 GA MIN. THICKNESS F _y = 30 KSI MIN.)	#12-14 X 1" SELF-DRILLING TEK MACHINE SCREW (F-7)	FULL	3/8"	N/A
WOOD (S.G. = 0.43 MIN.)	1/2" X 3-1/2" LAG BOLT WITH FLAT WASHER (F-9)	3"	2-1/2"	3"
CONCRETE (f _c = 2000 PSI MIN.)	1/2" X 5-1/2" HILTI KWIK-BOLT TZ EXPANSION ANCHOR (F-10)	3-1/4"	2-7/8" (SHEAR) 2-1/8" (TENSION)	6-1/2" (SHEAR) 9-1/2" (TENSION)
GROUT-FILLED CMU (f _m = 1500 PSI MIN.)	5/8" X 5-1/2" HILTI KWIK-BOLT III EXPANSION ANCHOR (F-8)	4"	4"	9-1/2"

REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

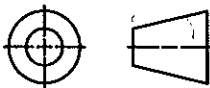
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF®

DRAWING DESCR: COVER SHEET

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 1 of 15

CHK'D BY: NW

SCALE: NONE

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

TABLE 1

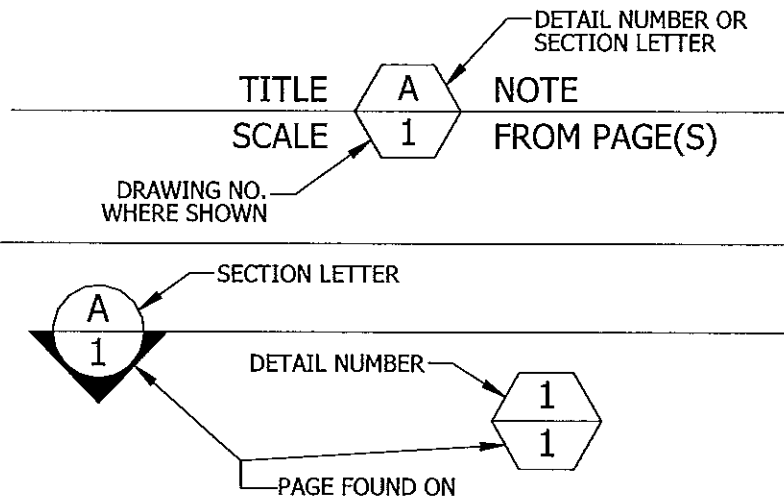
SINGLE SECTION SIZE LIMITATIONS

MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
150 PSF	13 X 6-1/2	60 X 120

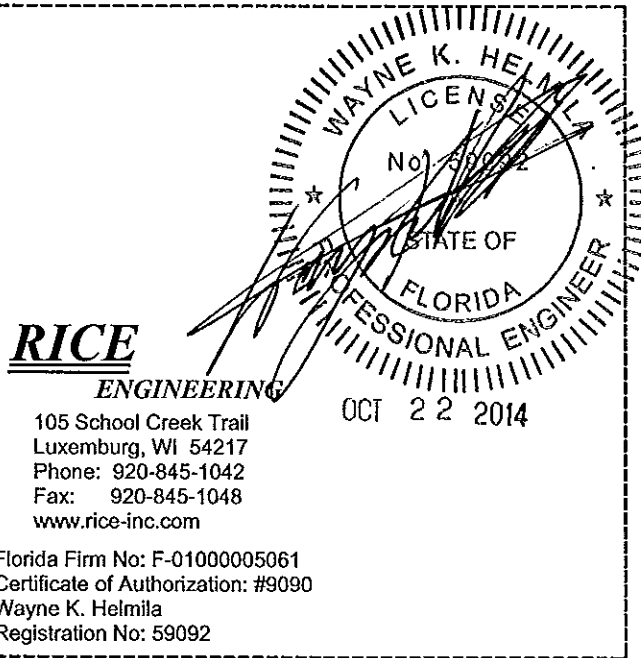
TABLE 2

MULTIPLE SECTION SIZE LIMITATIONS
(MAX DESIGN PRESSURE: 150 PSF)

SINGLE SECTION HIGH - UNLIMITED WIDTH	SEE SHEETS 11 & 12
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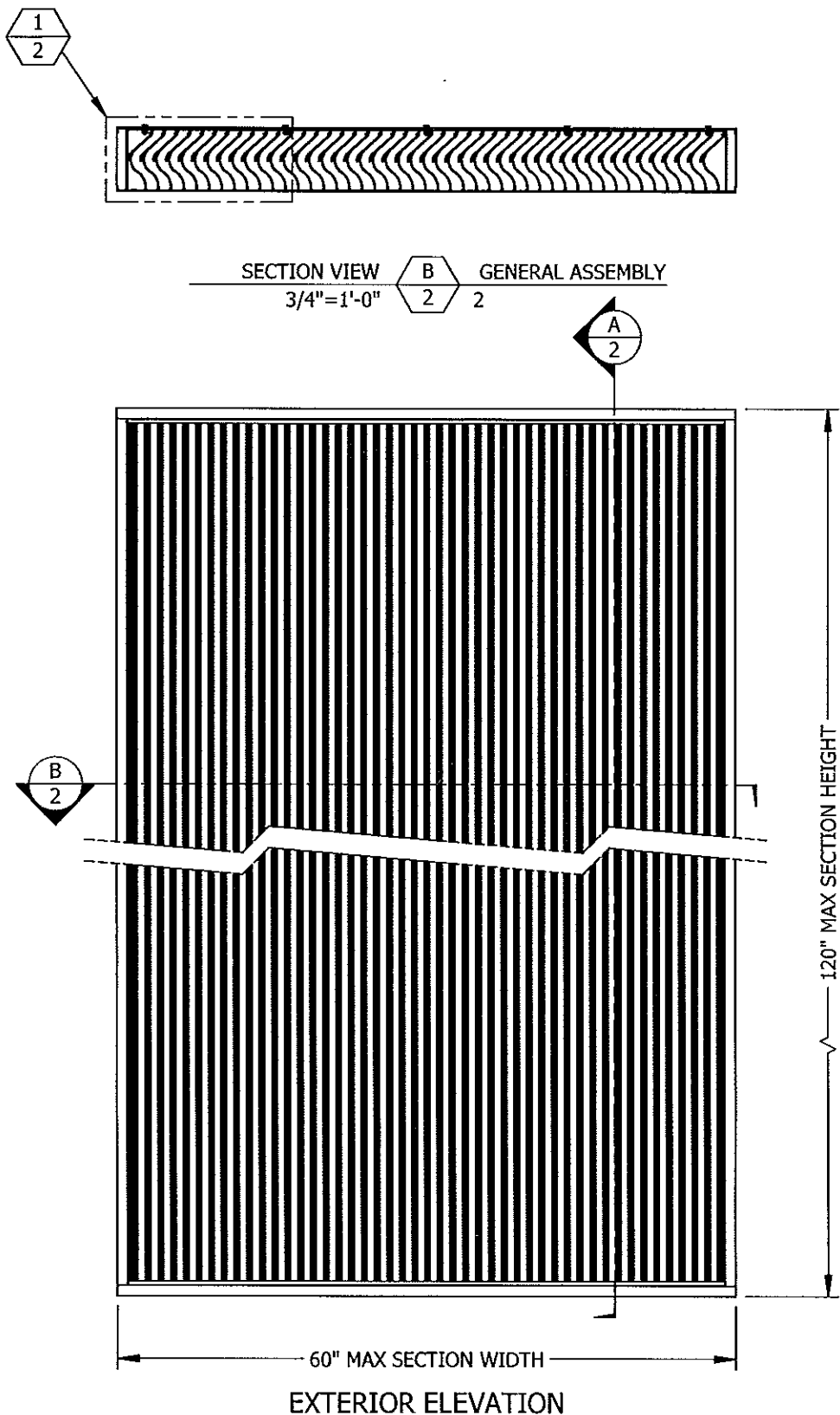


P.E. STAMP

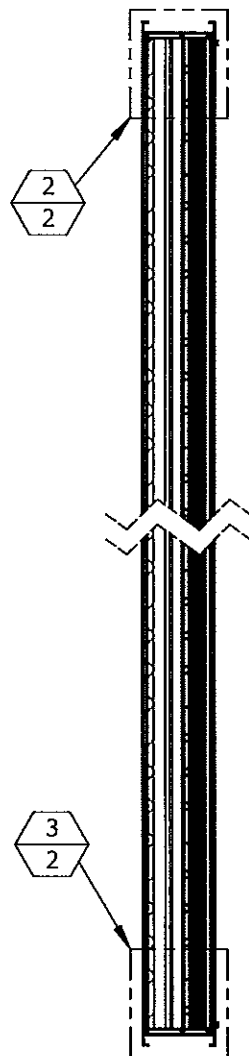


Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-2025-11
Miami Dade Product Control
By [Signature]

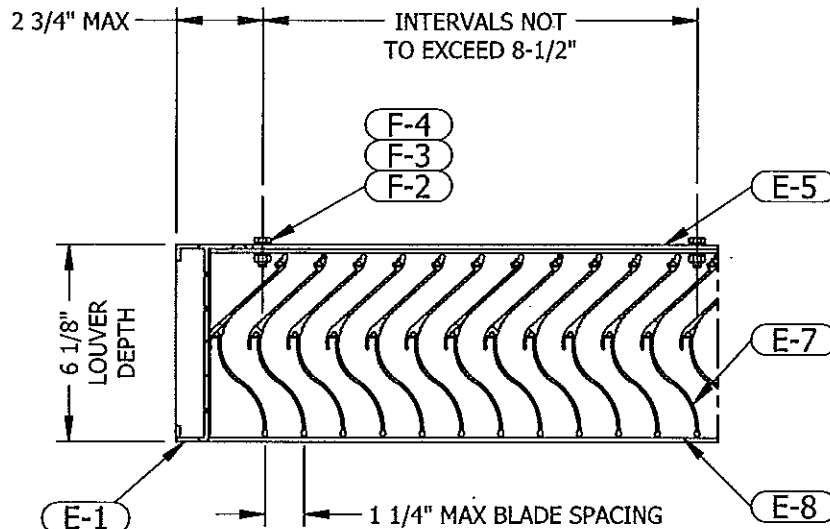
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Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# E-0605-11
Miami Dade Product Control
By [Signature]

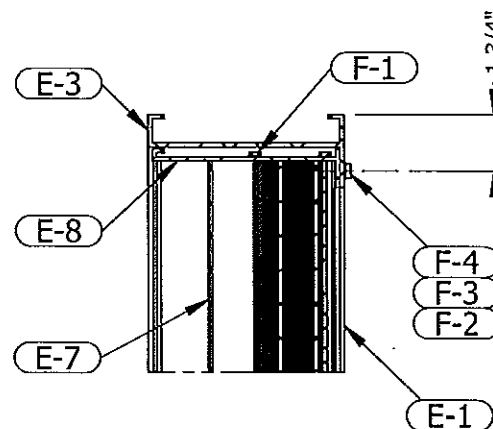


SECTION VIEW 3/4"=1'-0" A 2 GENERAL ASSEMBLY



CONSTRUCTION 2-1/4"=1'-0" 1 2 DETAIL

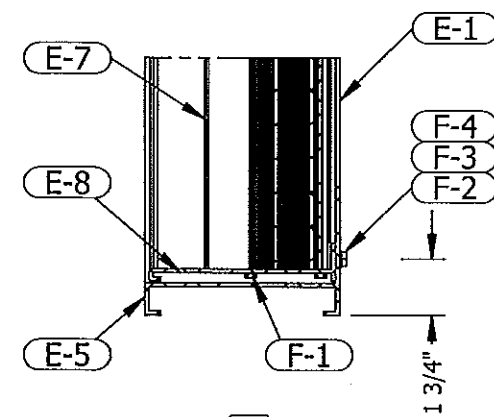
IN FLANGED CONFIGURATIONS:
E-2 WILL BE USED IN PLACE OF E-1
E-6 WILL BE USED IN PLACE OF E-5



CONSTRUCTION 2-1/4"=1'-0" 2 2 DETAIL

IN FLANGED CONFIGURATIONS:
E-2 WILL BE USED IN PLACE OF E-1
E-4 WILL BE USED IN PLACE OF E-3

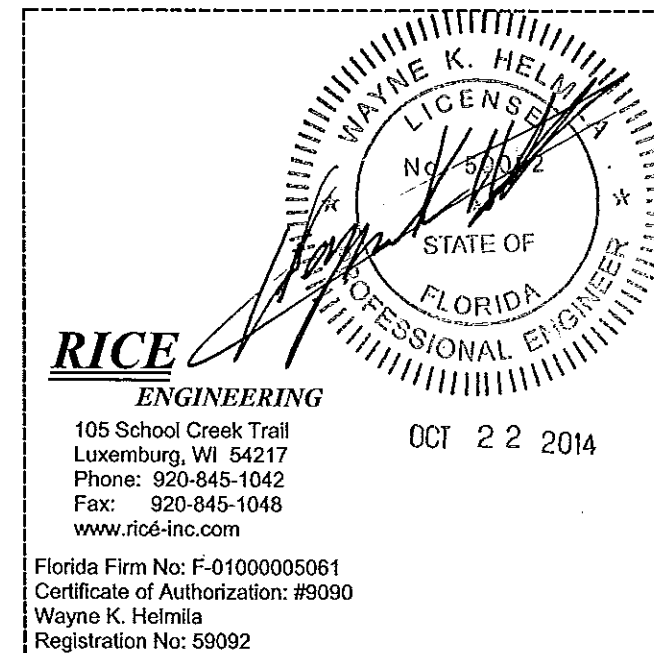
GENERAL LOUVER ASSEMBLY



CONSTRUCTION 2-1/4"=1'-0" 3 2 DETAIL

IN FLANGED CONFIGURATIONS:
E-2 WILL BE USED IN PLACE OF E-1
E-6 WILL BE USED IN PLACE OF E-5

P.E. STAMP



5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 2 of 15

CHK'D BY: NW

SCALE: 3/4"=1'-0"

DRAWN BY: LGH

ORDER NUMBER

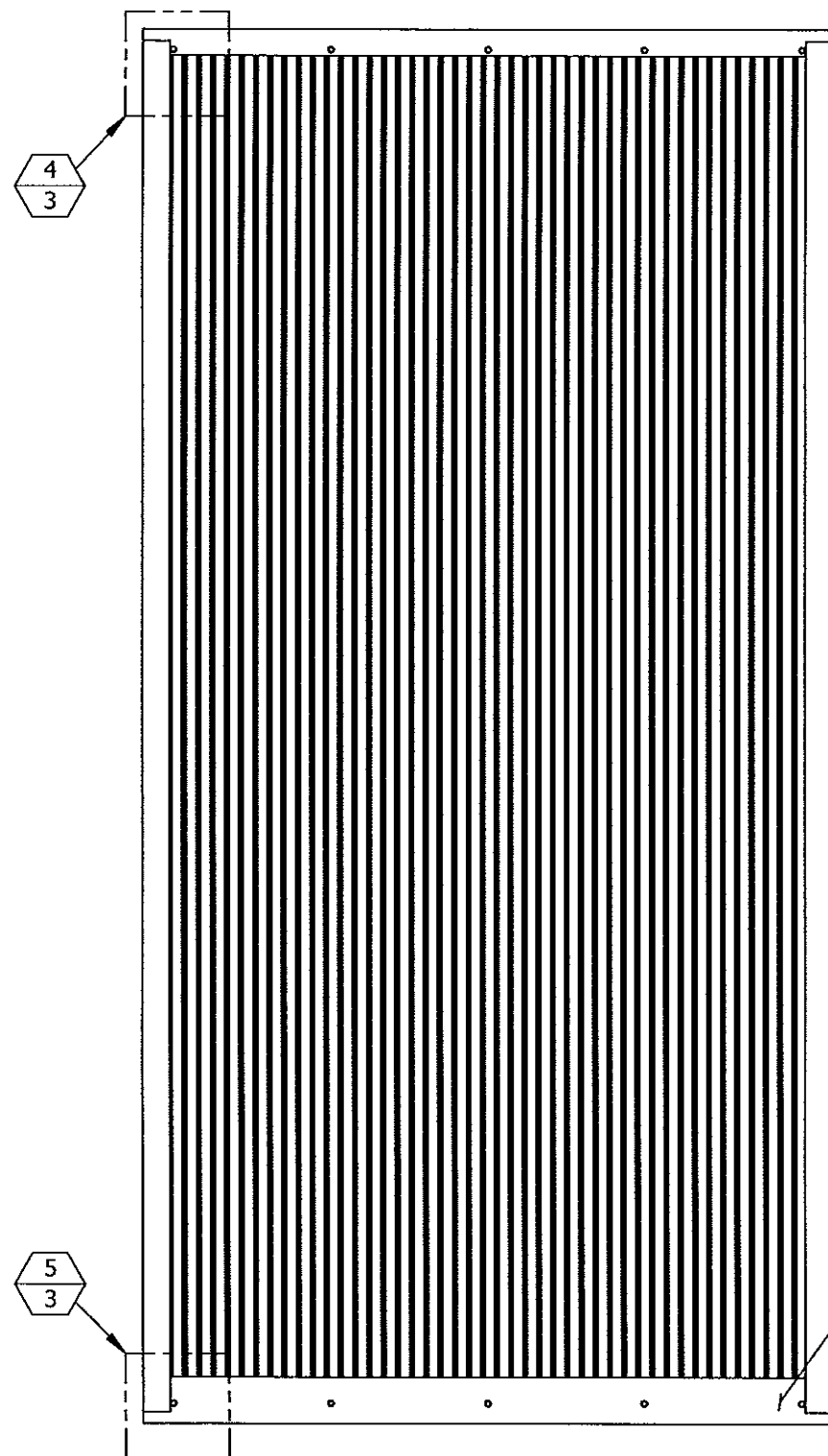
P.O. NUMBER

DRAWING NUMBER

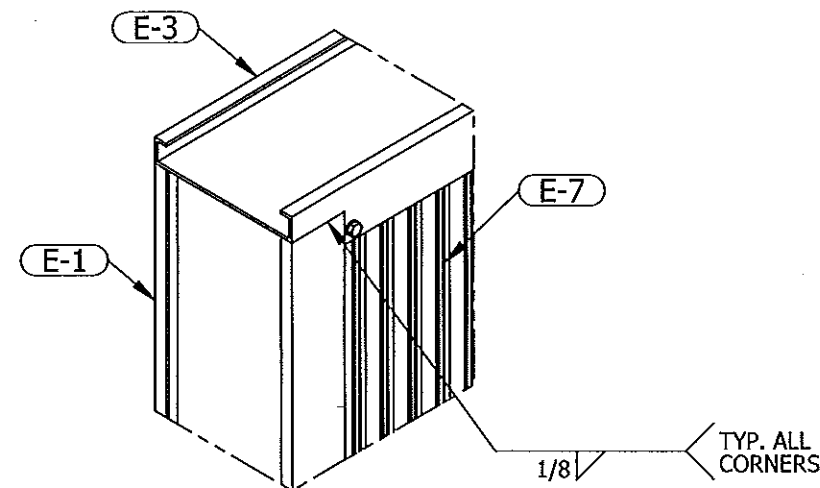
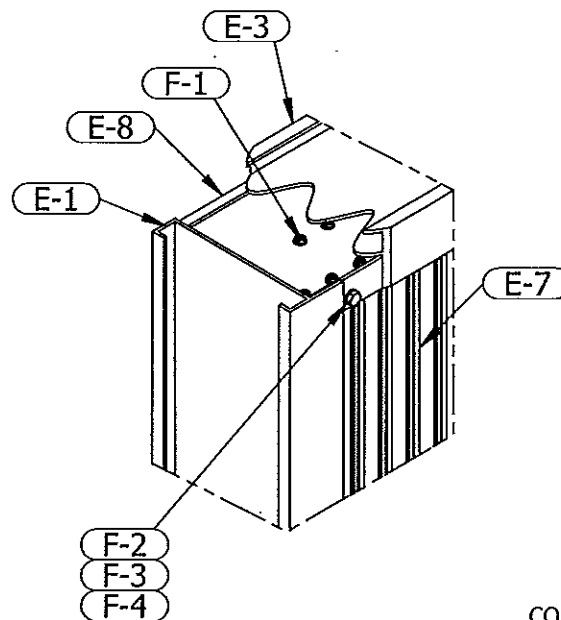
ECV-645-MD NOA

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GENERAL LOUVER ASSEMBLY



INTERIOR ELEVATION

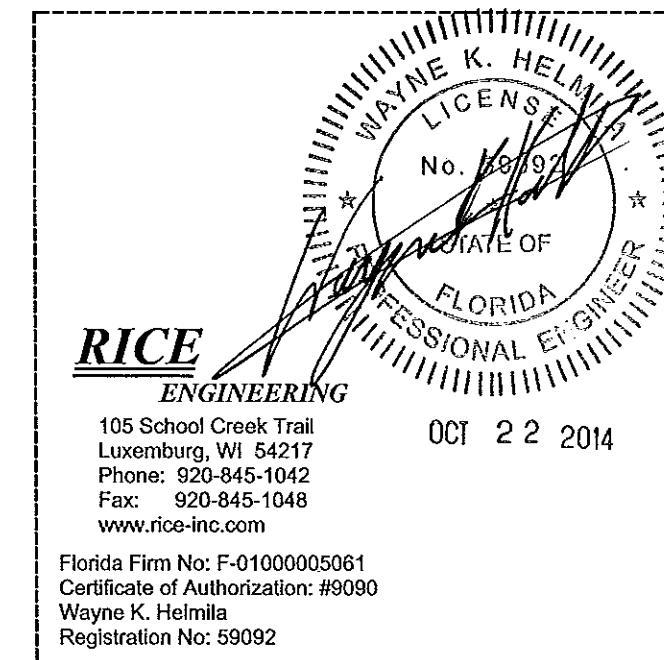


CONSTRUCTION 4
2-1/4" = 1'-0" 3 3

IN FLANGED CONFIGURATIONS:
E-2 WILL BE USED IN PLACE OF E-1
E-4 WILL BE USED IN PLACE OF E-3

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0605.11
Miami Dade Product Control
By [Signature]

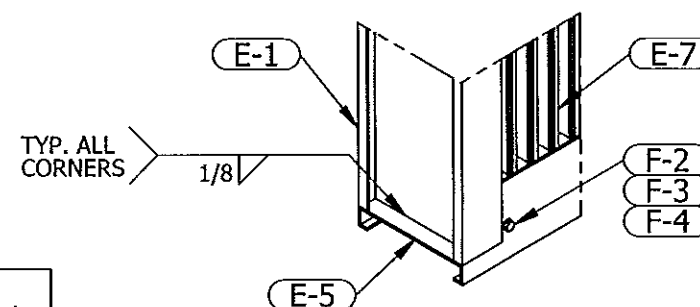
P.E. STAMP



ENGRAVED LABEL DETAIL

PCI Industries Inc d/b/a
POTTORFF
Ft Worth TX
SO# 123456

Miami Dade County
Product Control
Approved



CONSTRUCTION 5
2-1/4" = 1'-0" 3 3

IN FLANGED CONFIGURATIONS:
E-2 WILL BE USED IN PLACE OF E-1
E-6 WILL BE USED IN PLACE OF E-5

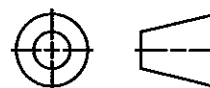
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 3 of 15

CHK'D BY: NW

SCALE: 3/4" = 1'-0"

DRAWN BY: LGH

ORDER NUMBER

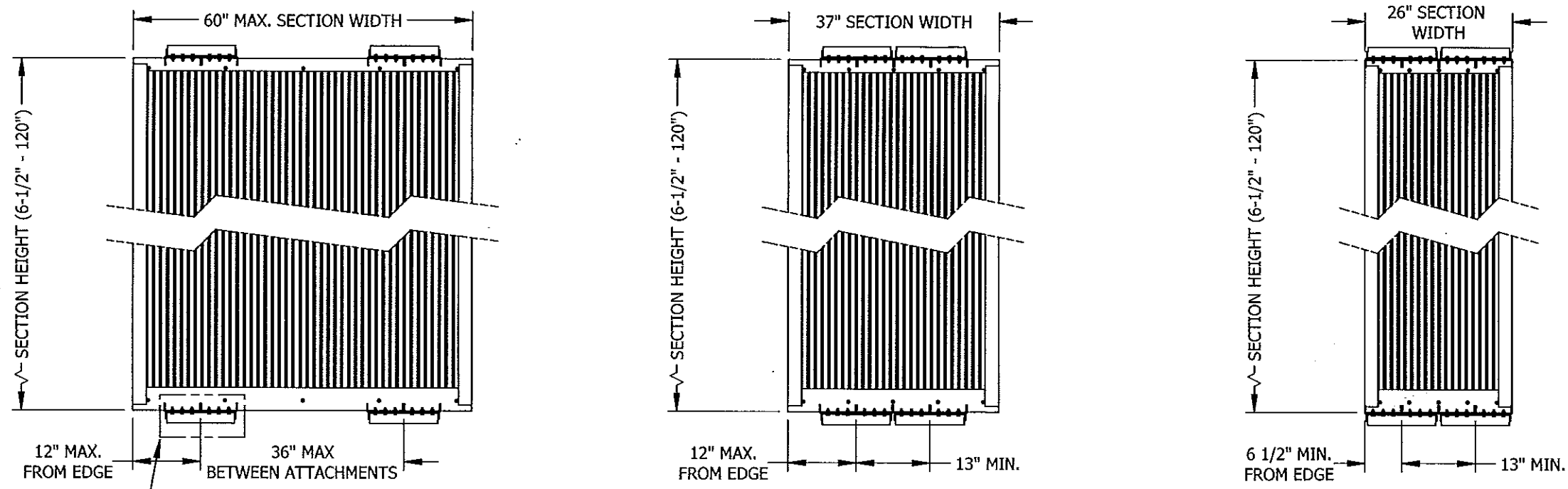
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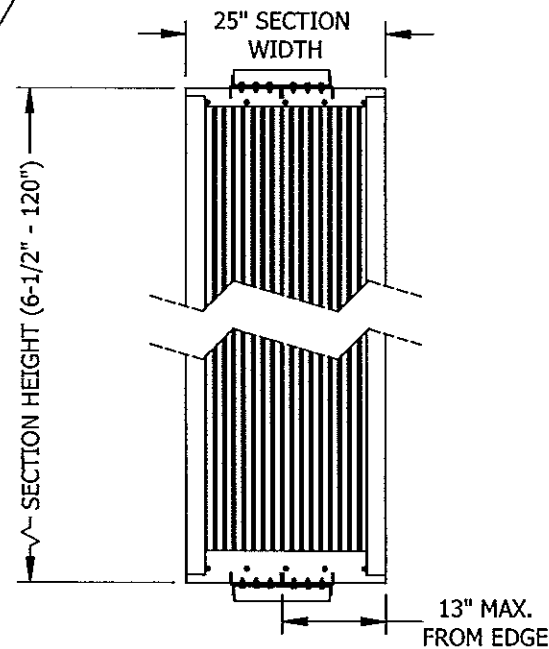
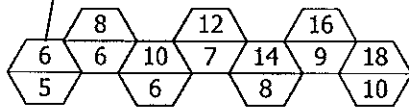
ECV-645-MD NOA

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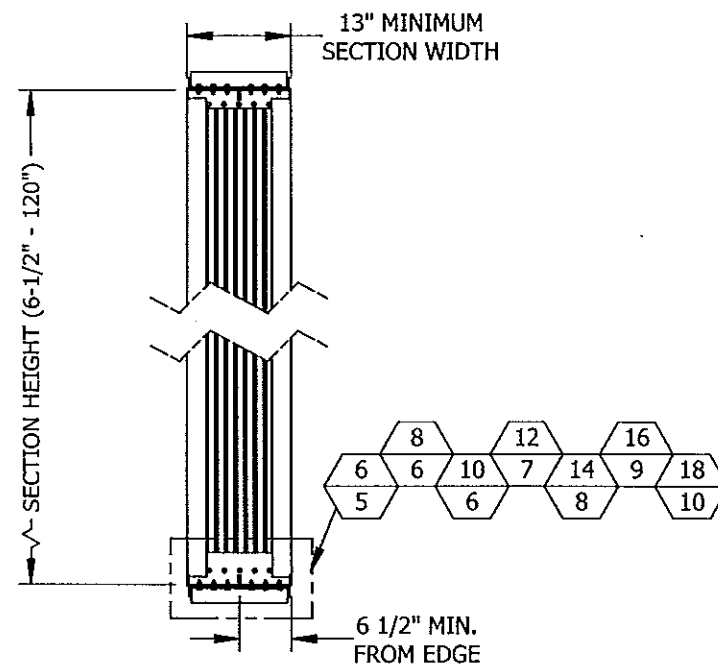
INSTALLATION CONFIGURATION



INSTALLATION CONFIGURATION FOR LOUVER SECTIONS BETWEEN 26" AND 60" WIDE
FOUR ATTACHMENT LOCATIONS TOTAL; 6-1/2" - 12" FROM EACH EDGE; 13" - 36" APART
TYPICAL FOR ALL BUILDING CONDITIONS



INSTALLATION CONFIGURATION FOR LOUVER SECTIONS BETWEEN 13" AND 26" WIDE
TWO ATTACHMENT LOCATIONS TOTAL; 6-1/2" - 13" FROM EACH EDGE
TYPICAL FOR ALL BUILDING CONDITIONS



Approved as complying with the
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Date 01/22/2015
NOA# 14-0605.11
Miami Dade Product Control
By

P.E. STAMP

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920-845-1042
Fax: 920-845-1048
www.rice-inc.com
OCT 22 2014
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

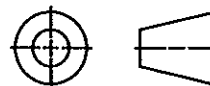
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: INSTALLATION CONFIGURATION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DRAWN BY: LGH

DATE: 8/27/2013

CHK'D BY: NW

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

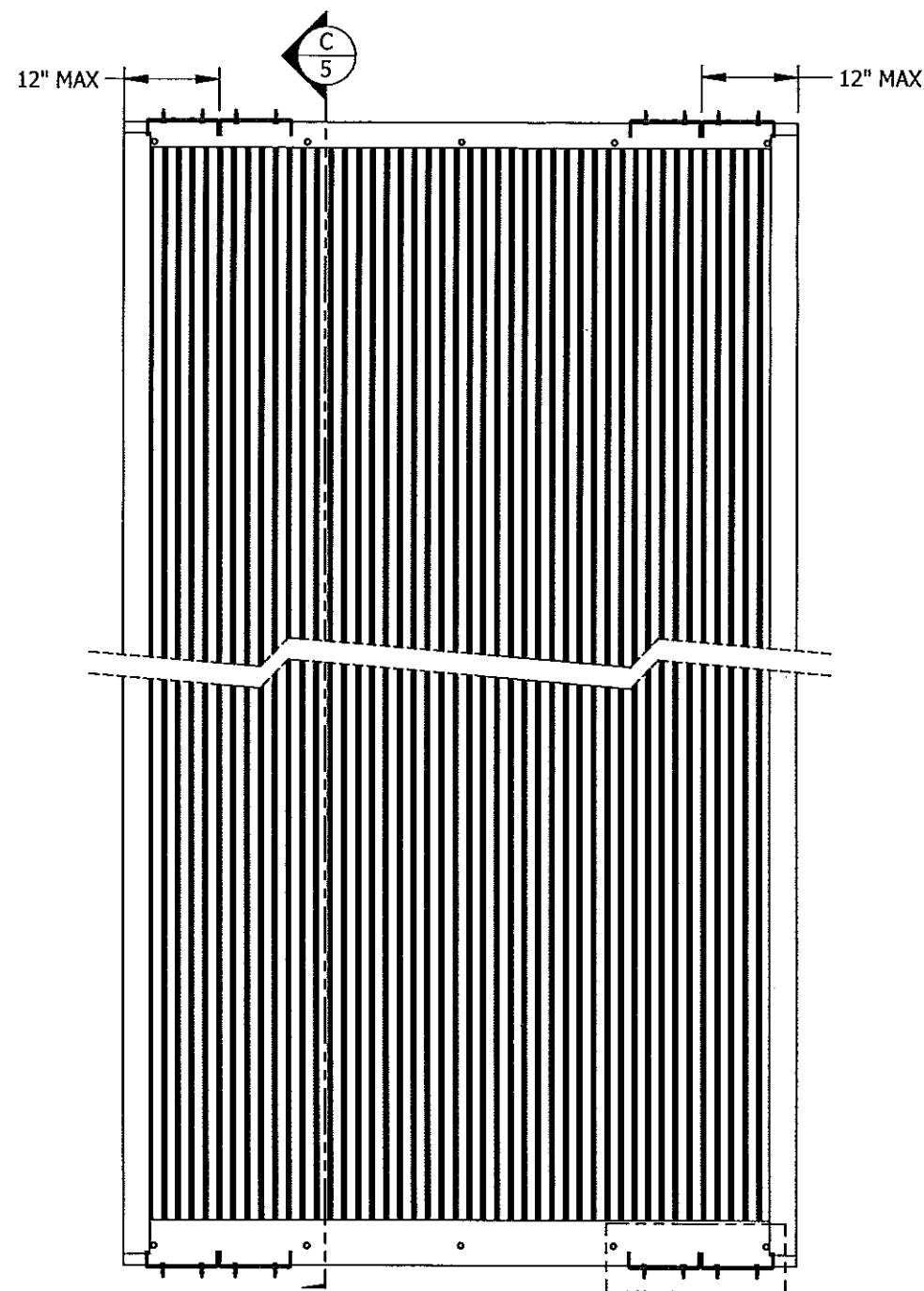
SHEET: 4 of 15

SCALE: 3/4"=1'-0"

ECV-645-MD NOA

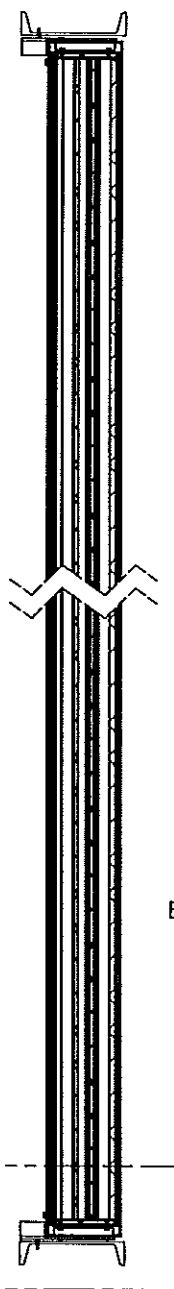
REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

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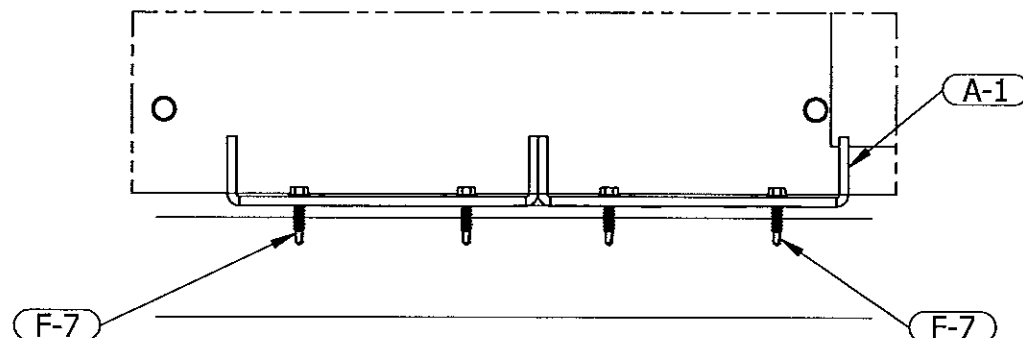
INTERIOR ELEVATION

6
5 SINGLE SECTION HIGH C STEEL CONDITION
3/4" = 1'-0" 5 5

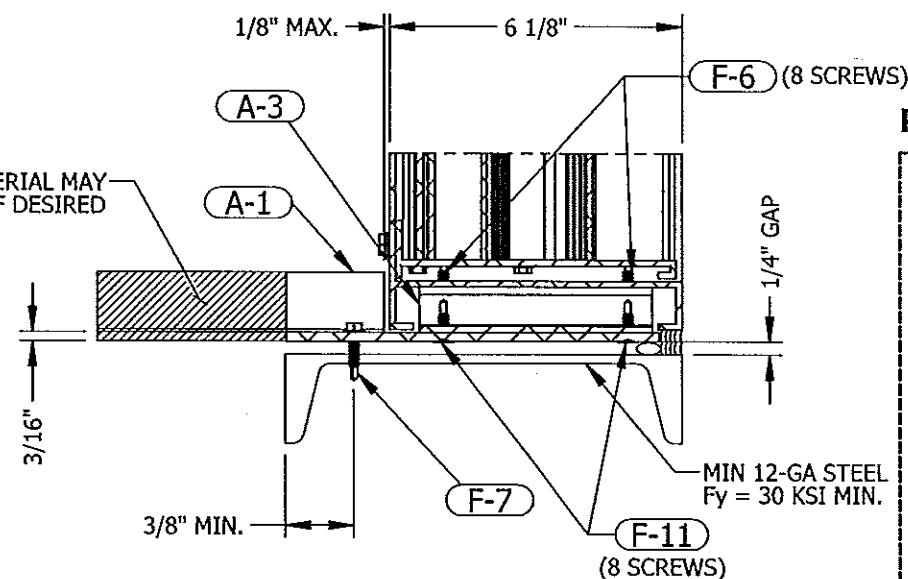


EXCESS MATERIAL MAY
BE REMOVED IF DESIRED

7
5



TOP & BTM MOUNT DETAIL 6 STEEL CONDITION
3" = 1'-0" 5 4, 5, 11

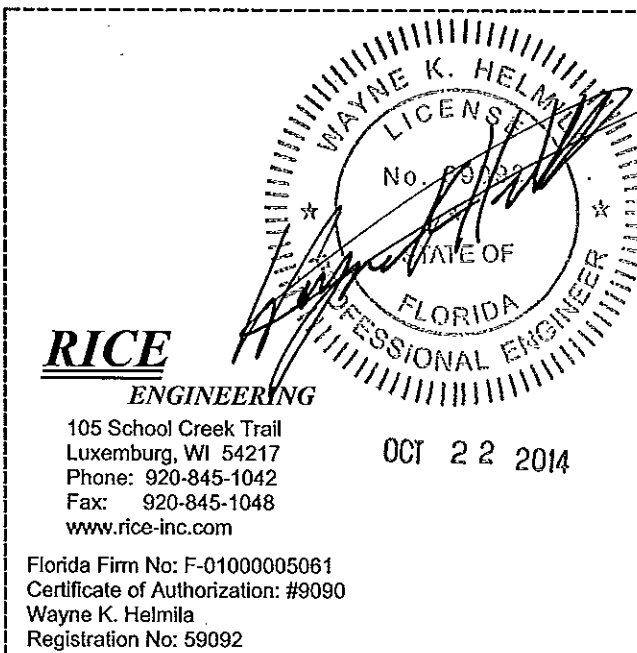


TOP & BTM MOUNT DETAIL 7 STEEL CONDITION
3" = 1'-0" 5 5, 11

SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0005-11
Miami Dade Product Control
By *[Signature]*

P.E. STAMP



NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

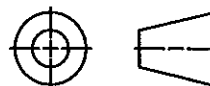
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DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
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X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 5 of 15

CHK'D BY: NW
SCALE: 3/4" = 1'-0"

DRAWN BY: LGH

ORDER NUMBER

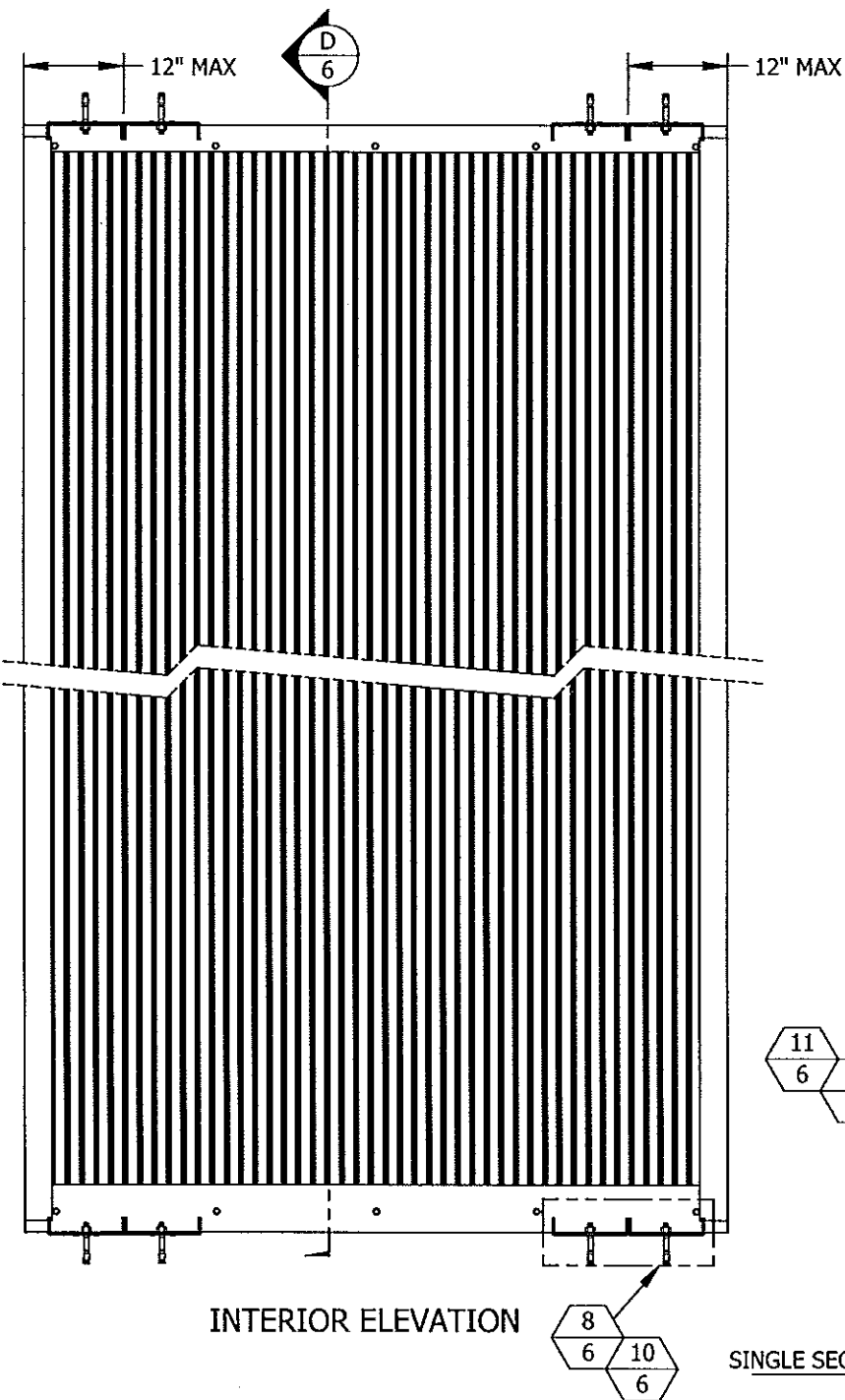
P.O. NUMBER

DRAWING NUMBER

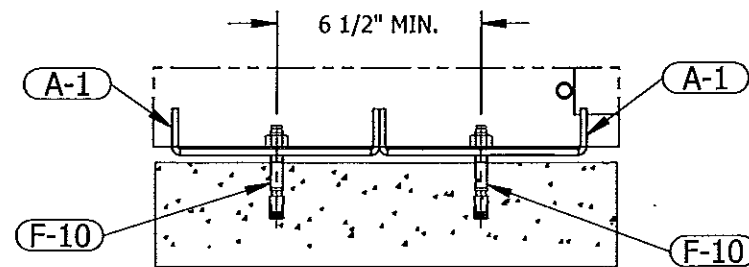
ECV-645-MD NOA

REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

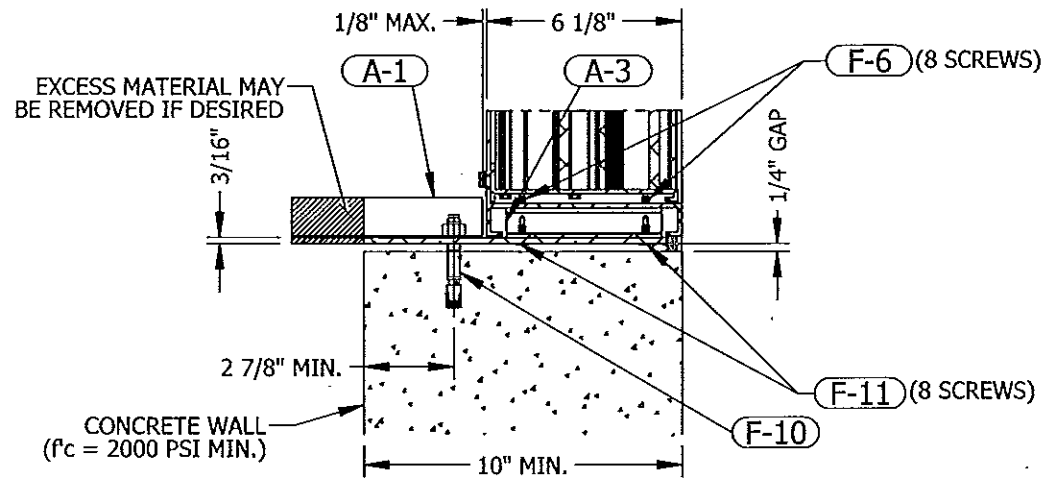
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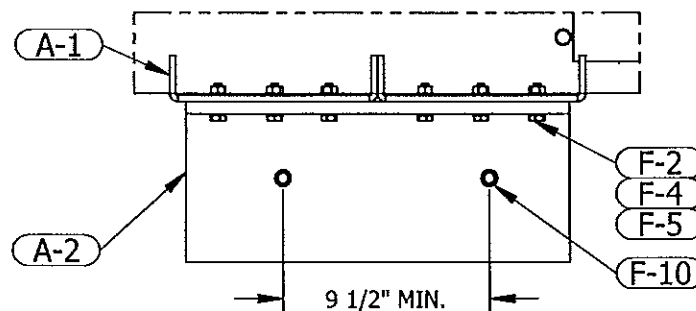
SINGLE SECTION HIGH **D** CONCRETE CONDITION
3/4" = 1'-0" 6 6



TOP & BTM MOUNT DETAIL **8** CONCRETE CONDITION
6"=1'-0" 6 4, 6, 11
SHEAR CONNECTION
(FOR WALL OVER 10" THICK)

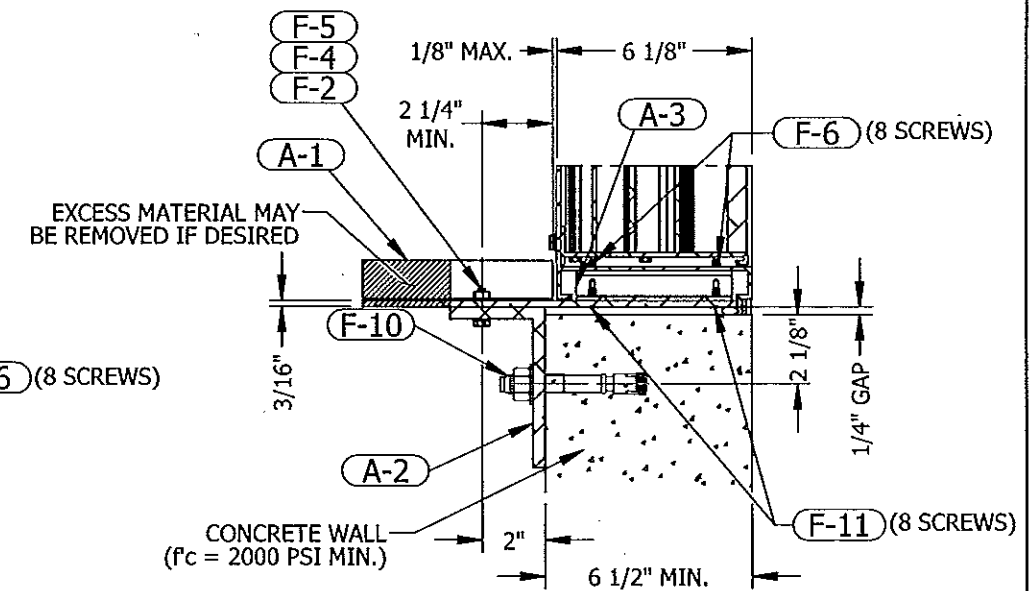


TOP & BTM MOUNT DETAIL **9** CONCRETE CONDITION
6"=1'-0" 6 6, 11
SHEAR CONNECTION
(FOR WALL OVER 10" THICK)



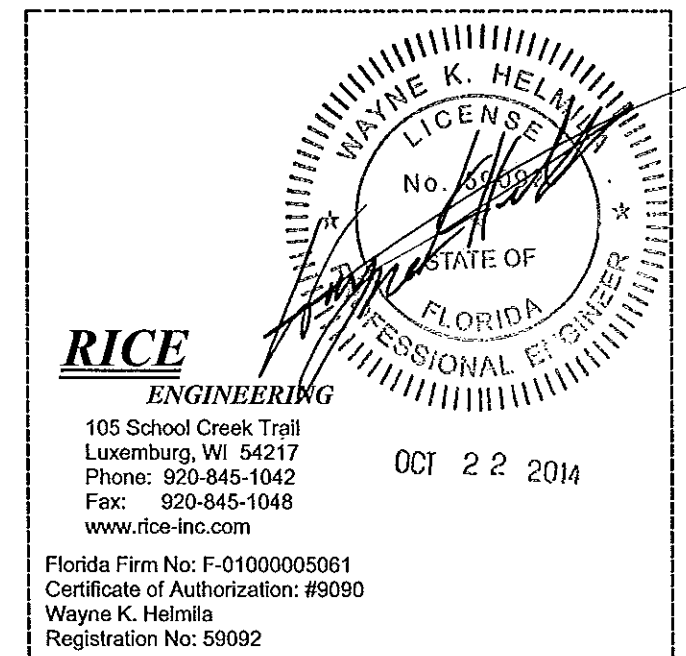
TOP & BTM MOUNT DETAIL **10** CONCRETE CONDITION
6"=1'-0" 6 4, 6, 11
TENSION CONNECTION
(WALL THICKNESS 6-1/2" MIN, 10" MAX)

SINGLE SECTION WIDE X SINGLE SECTION HIGH - CONCRETE CONDITION



TOP & BTM MOUNT DETAIL **11** CONCRETE CONDITION
6"=1'-0" 6 6, 11
TENSION CONNECTION
(WALL THICKNESS 6-1/2" MIN, 10" MAX)

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Florida Building Code
Date: 01/22/2015
NOA# 14-8605.1
Miami Dade Product Control
By: [Signature]

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

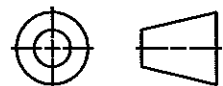
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: SINGLE SEC. WIDE X SINGLE SEC. HIGH - CONCRETE CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 6 of 15

DRAWN BY: LGH

ORDER NUMBER

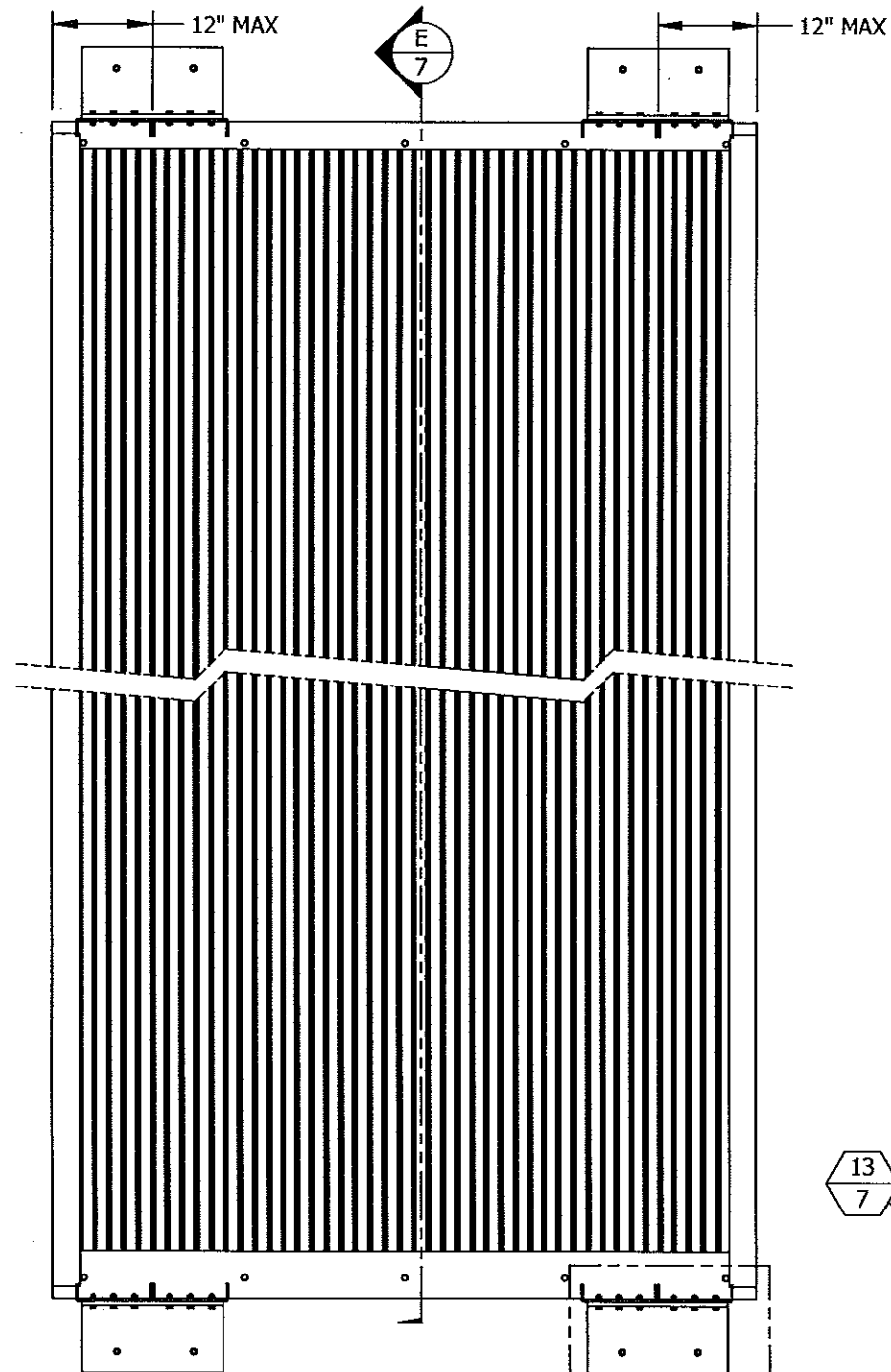
SCALE: 3/4"=1'-0"

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

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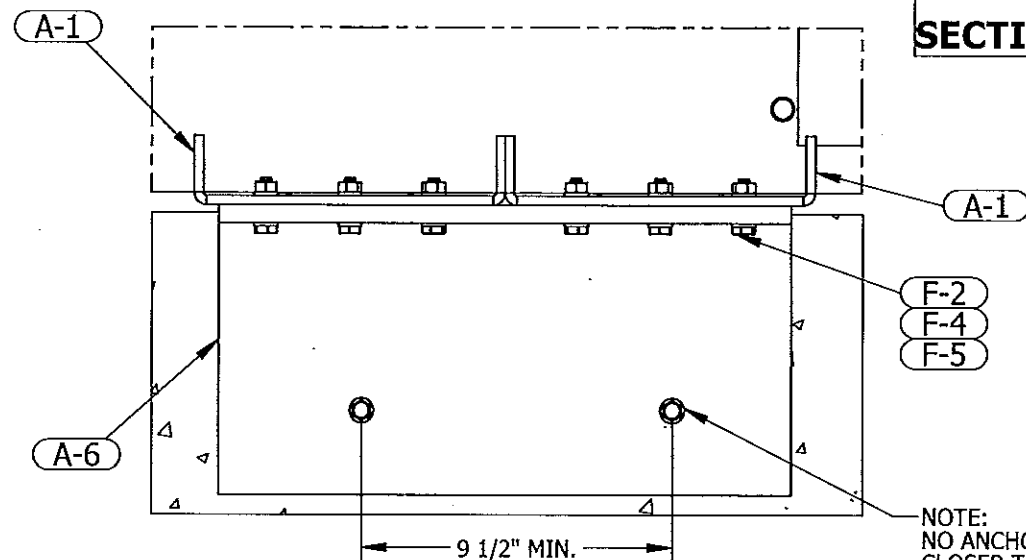
INTERIOR ELEVATION

12
7

SINGLE SECTION HIGH E CMU CONDITION
3/4" = 1'-0" 7 7



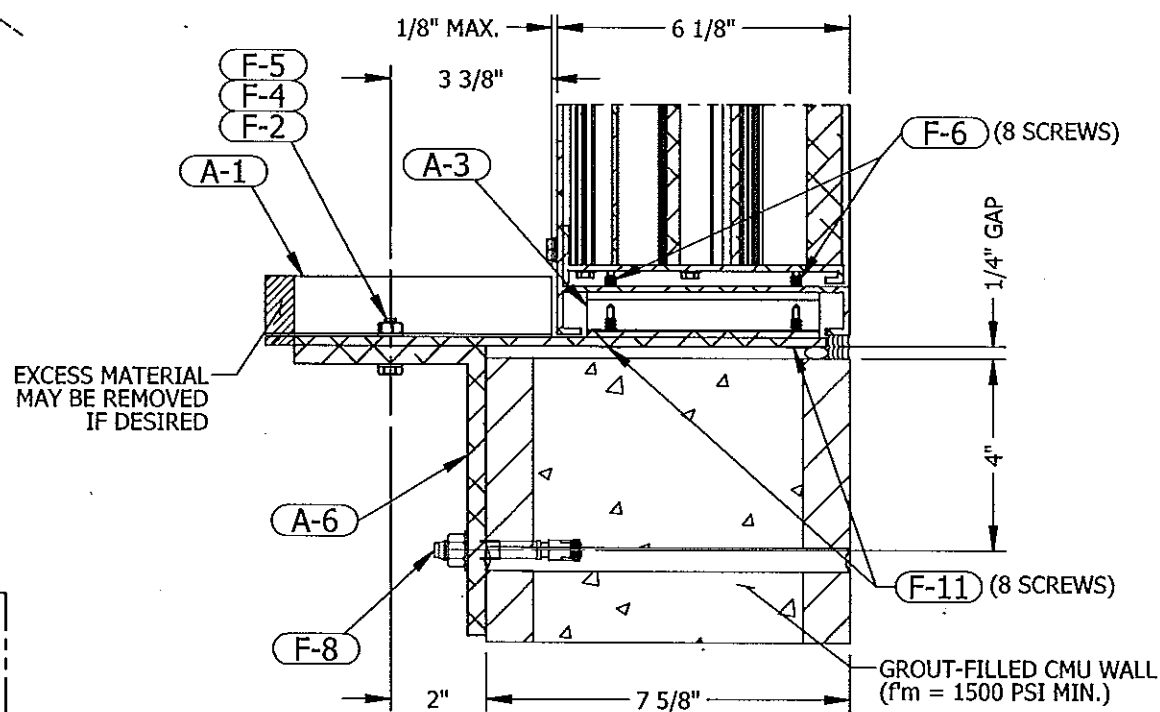
13
7



TOP & BTM MOUNT DETAIL 12 CMU CONDITION
3" = 1'-0" 7 4, 7, 11

SINGLE SECTION WIDE X SINGLE SECTION HIGH - GROUT-FILLED CMU CONDITION

NOTE:
NO ANCHOR MAY BE LOCATED
CLOSER THAN 1-3/8" TO A VERTICAL
JOINT BETWEEN CMU BLOCKS AND
NO CELL IN EACH BLOCK MAY BE
PENETRATED BY MORE THAN ONE
ANCHOR.



TOP & BTM MOUNT DETAIL 13 CMU CONDITION
3" = 1'-0" 7 7, 11

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Florida Building Code
Date 01/22/2015
NOA# 14-0605.11
Miami Dade Product Control
By [Signature]

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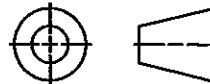


NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.
TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16
MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - CMU CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 7 of 15

CHK'D BY: NW

SCALE: 3/4" = 1'-0"

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

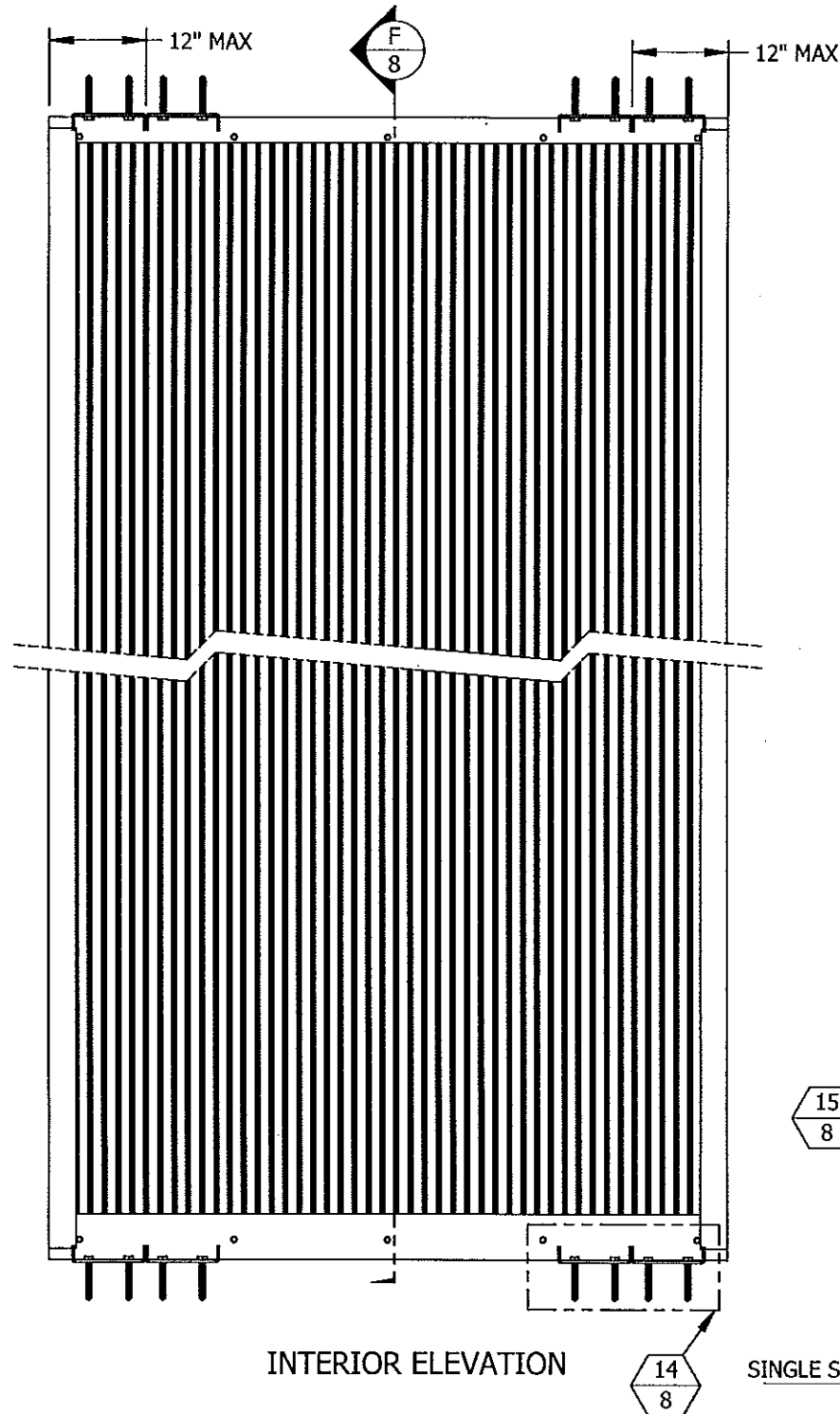
DRAWING NUMBER

ECV-645-MD NOA

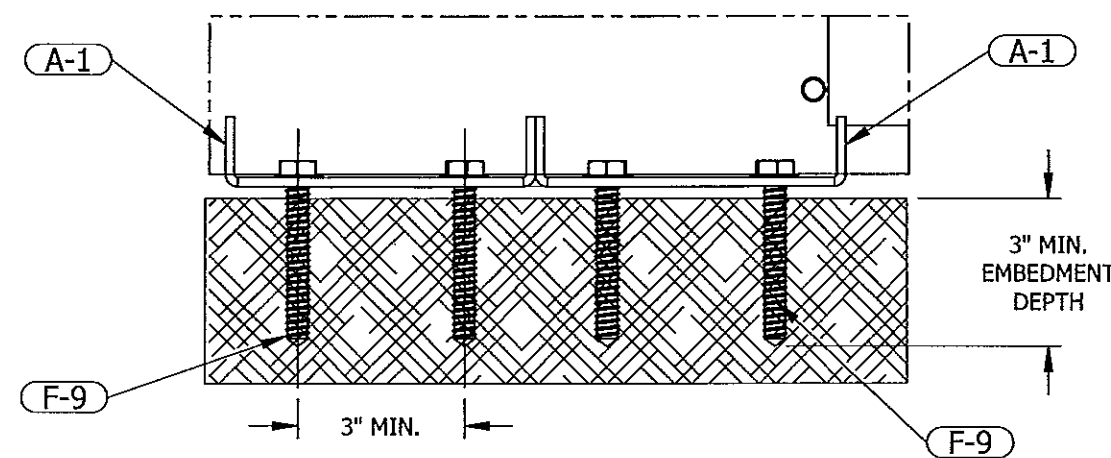
REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

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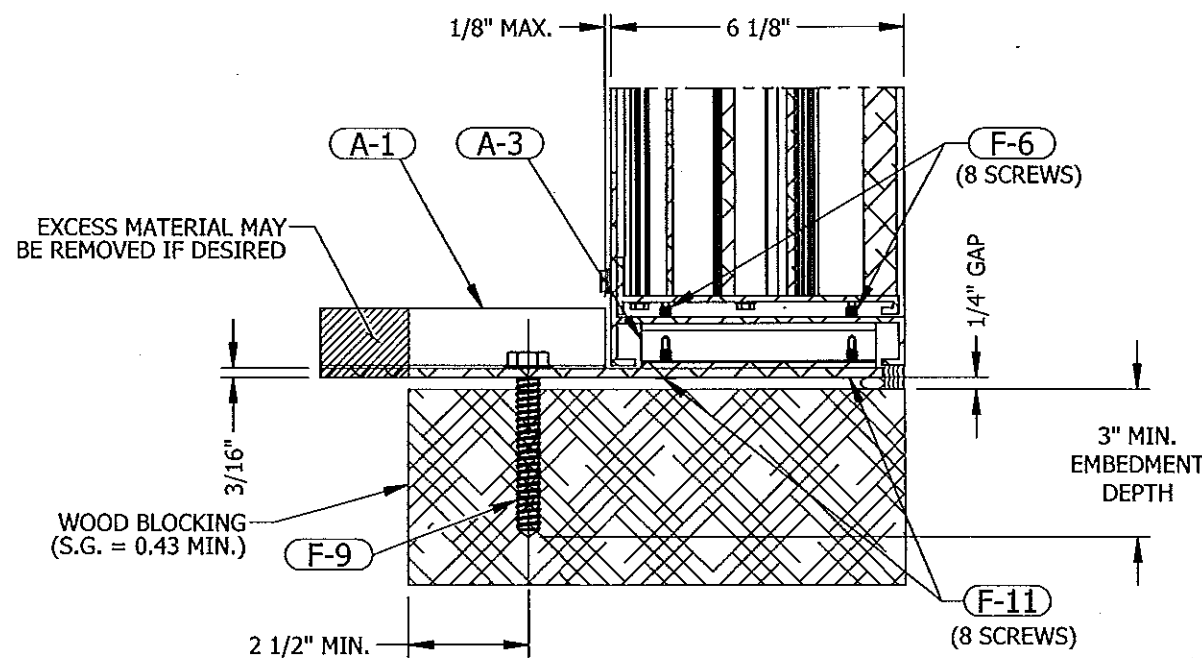
**SINGLE SECTION WIDE X SINGLE
SECTION HIGH - WOOD CONDITION**



SINGLE SECTION HIGH **F** WOOD CONDITION
3/4"=1'-0" 8



TOP & BTM MOUNT DETAIL **14** WOOD CONDITION
3"=1'-0" 8 4, 8, 11

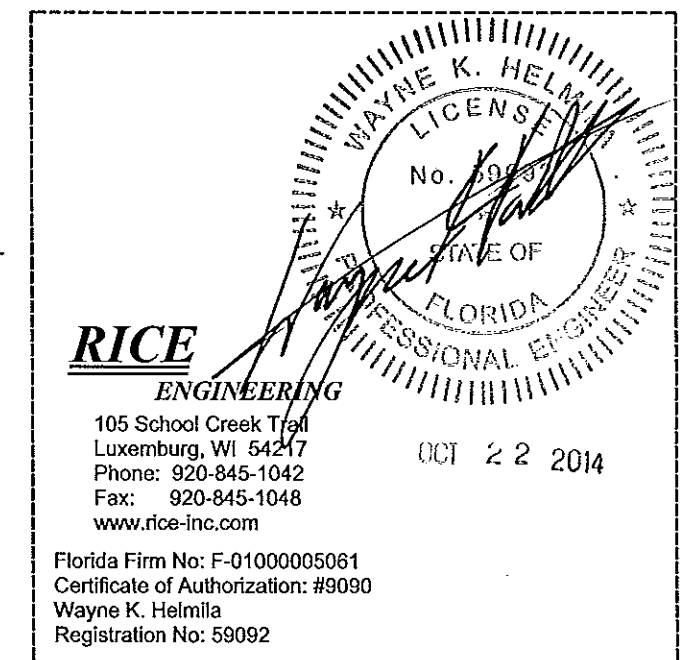


TOP & BTM MOUNT DETAIL **15** WOOD CONDITION
3"=1'-0" 8 8, 11

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

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Date 01/22/2015
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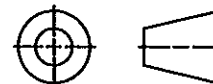
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fax: 817-831-3110

THIRD ANGLE PROJECTION

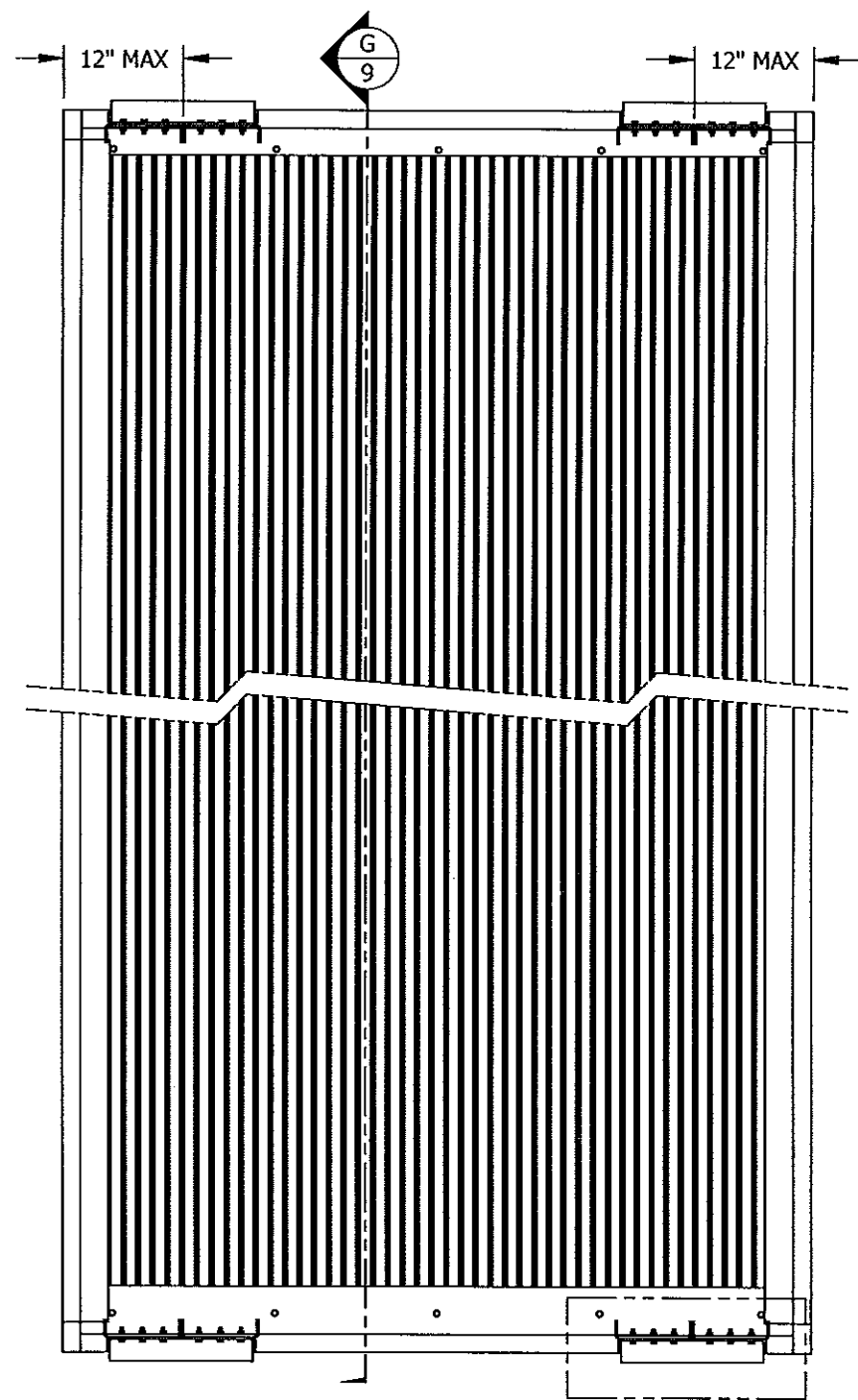


PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

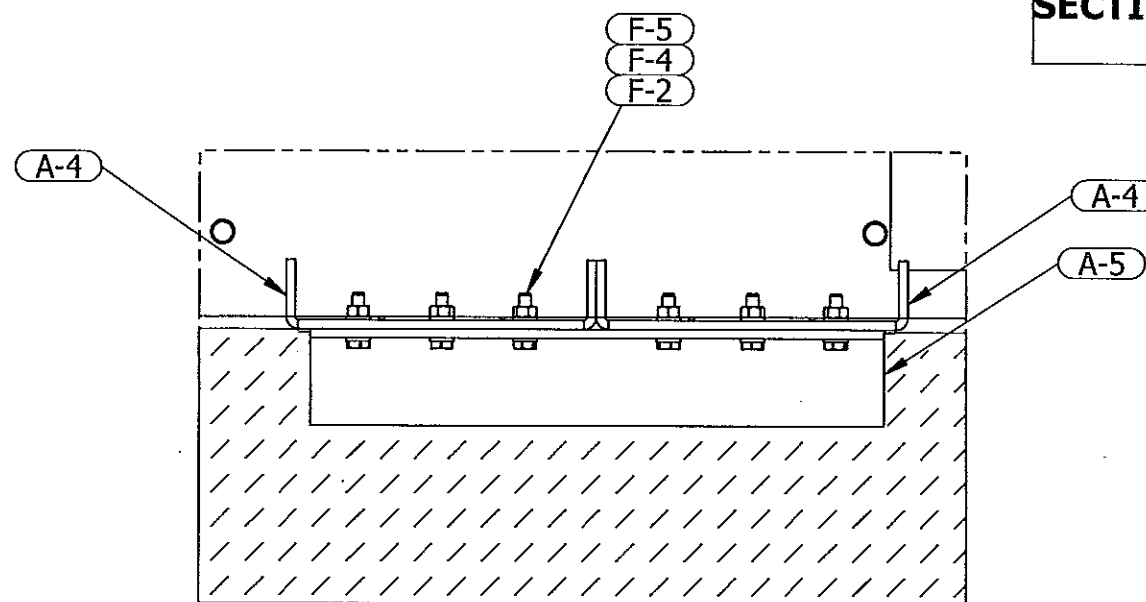
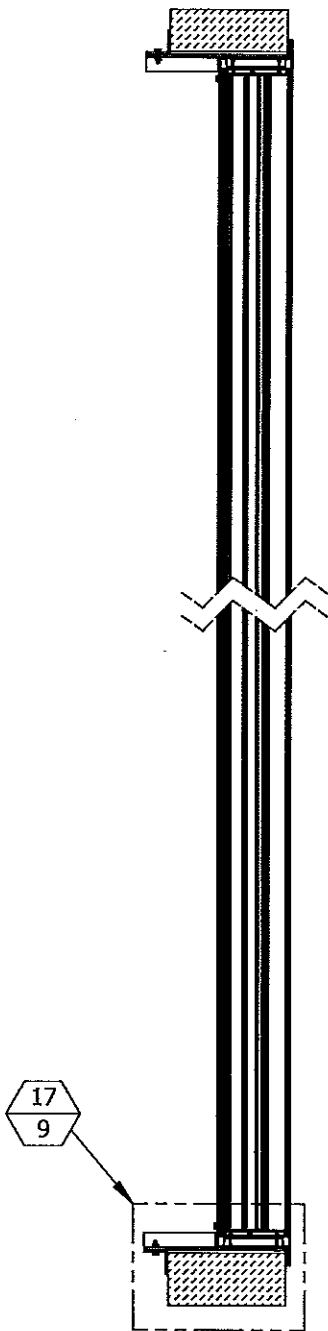
DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION				
PROJECT: ECV-645-MD				
LOCATION:				
CUSTOMER:				
PROJ. MGR:		DRAWN BY: LGH		
DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
SHEET: 8 of 15	SCALE: 3/4"=1'-0"			ECV-645-MD NOA

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - POTTORFF REV. 5\

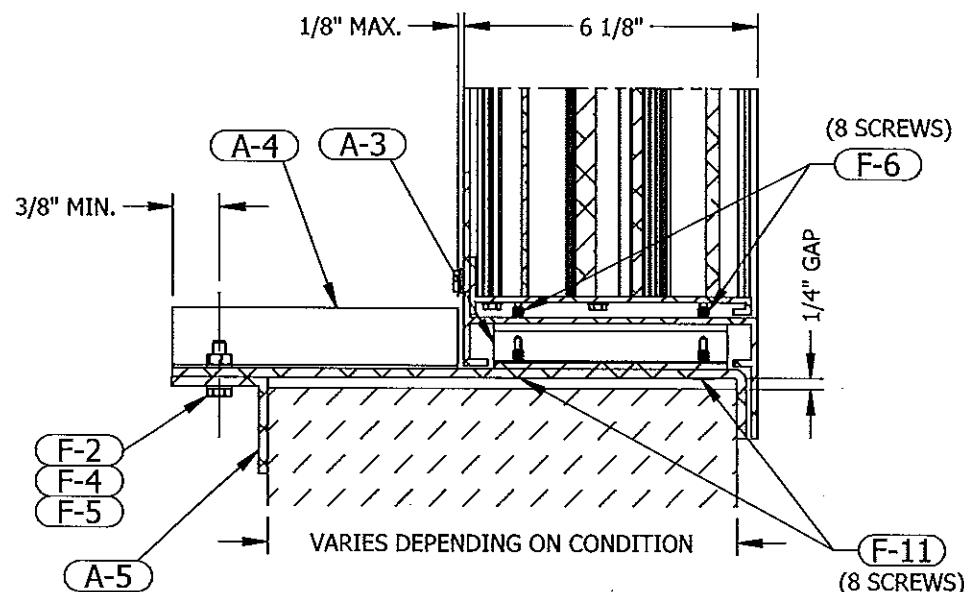


INTERIOR ELEVATION

16
9 FLANGED SINGLE SECTION HIGH G ALL CONDITIONS
3/4\" = 1'-0\" 9 9



FLANGED TOP & BTM MOUNT DETAIL 16 ALL CONDITIONS
3\" = 1'-0\" 9 4, 9, 12

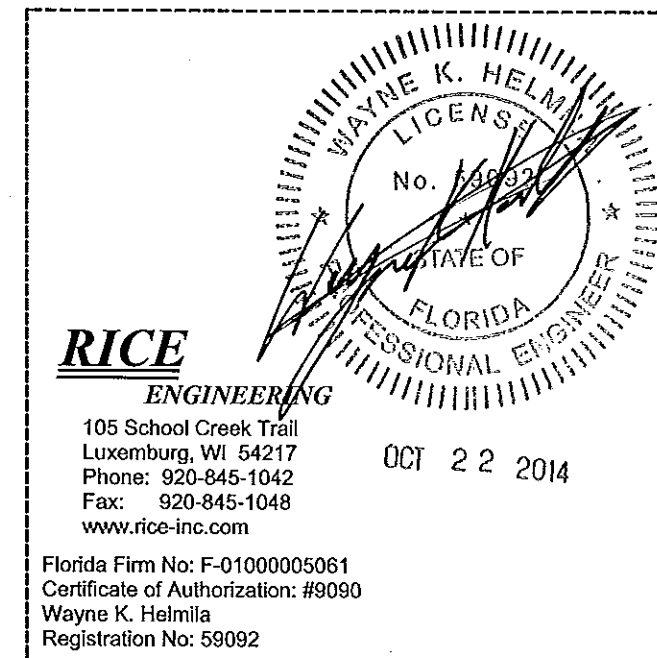


FLANGED TOP & BTM MOUNT DETAIL 17 ALL CONDITIONS
3\" = 1'-0\" 9 9, 12

**SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSEMBLY
ALL CONDITIONS**

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Date 01/22/2015
NOA# 4-2005-11
Miami Dade Product Control
By *[Signature]*

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NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

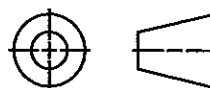
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
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X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSY - ALL

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 9 of 15

CHK'D BY: NW
SCALE: 3/4\" = 1'-0\"

DRAWN BY: LGH

ORDER NUMBER

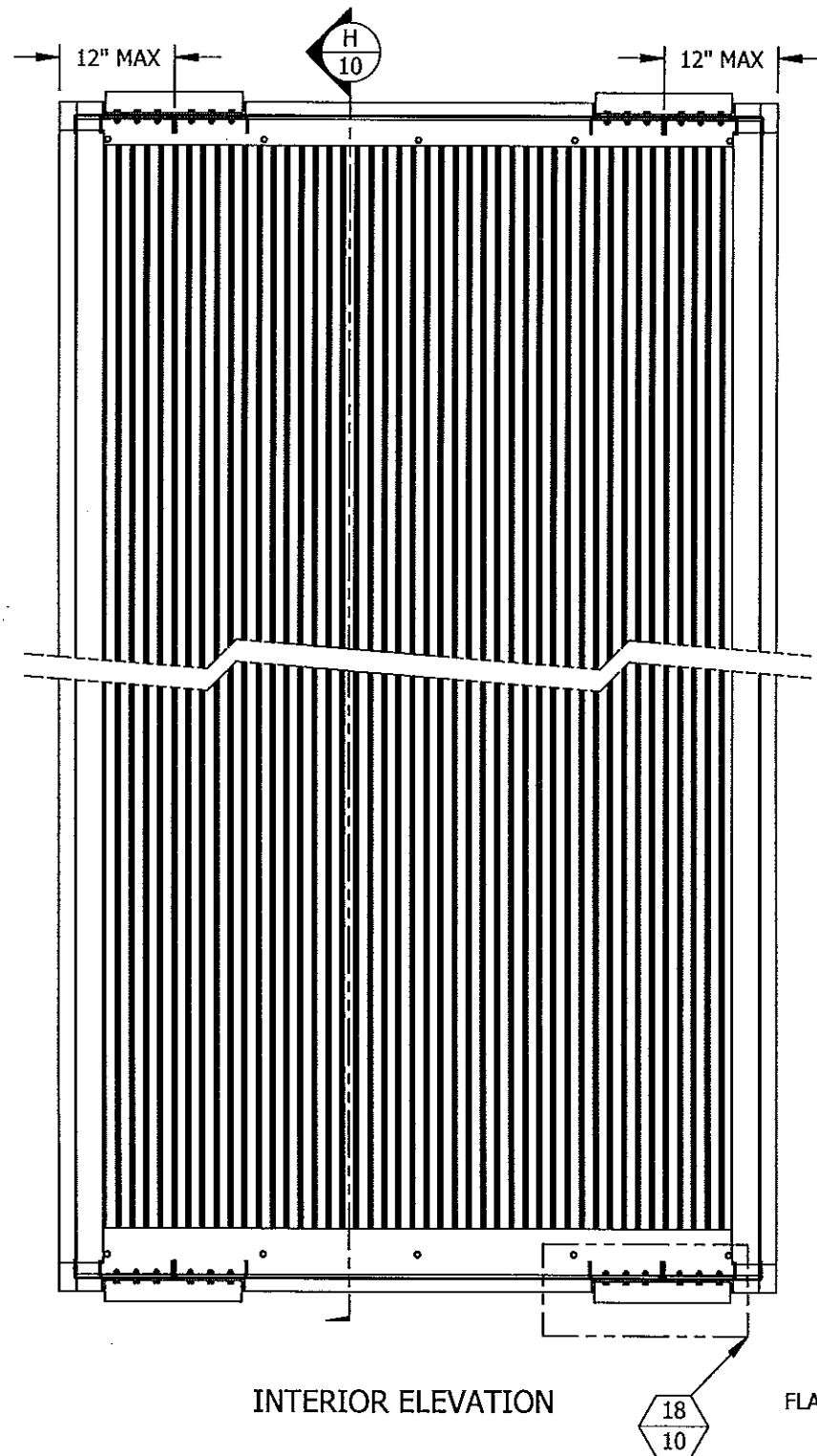
P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

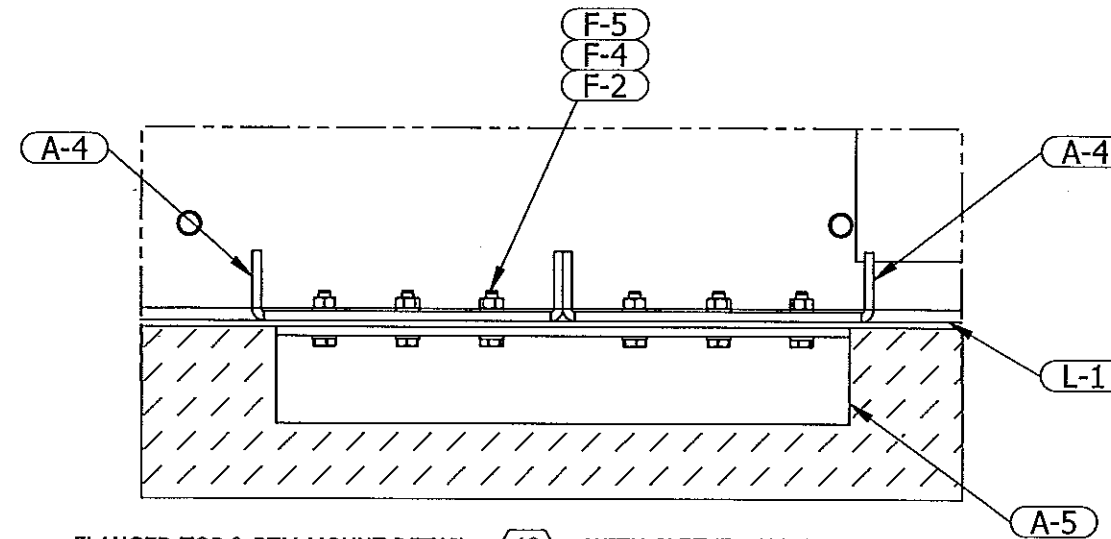
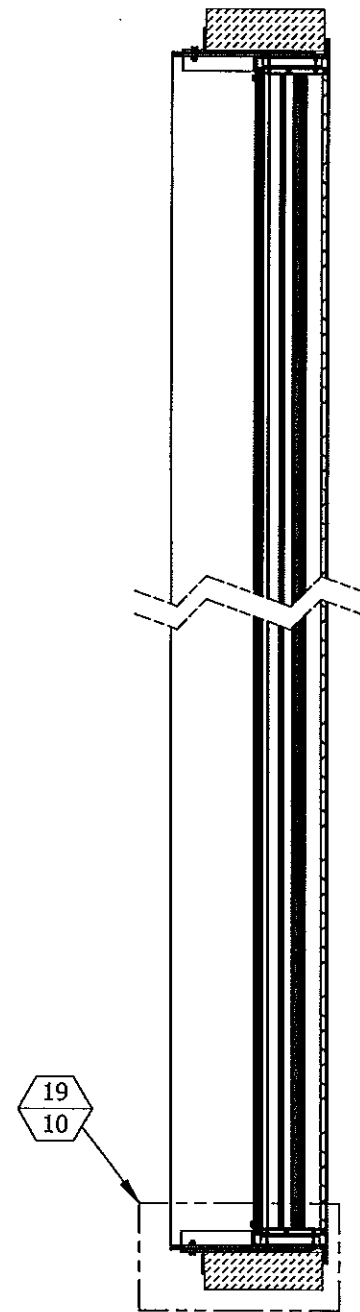
REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

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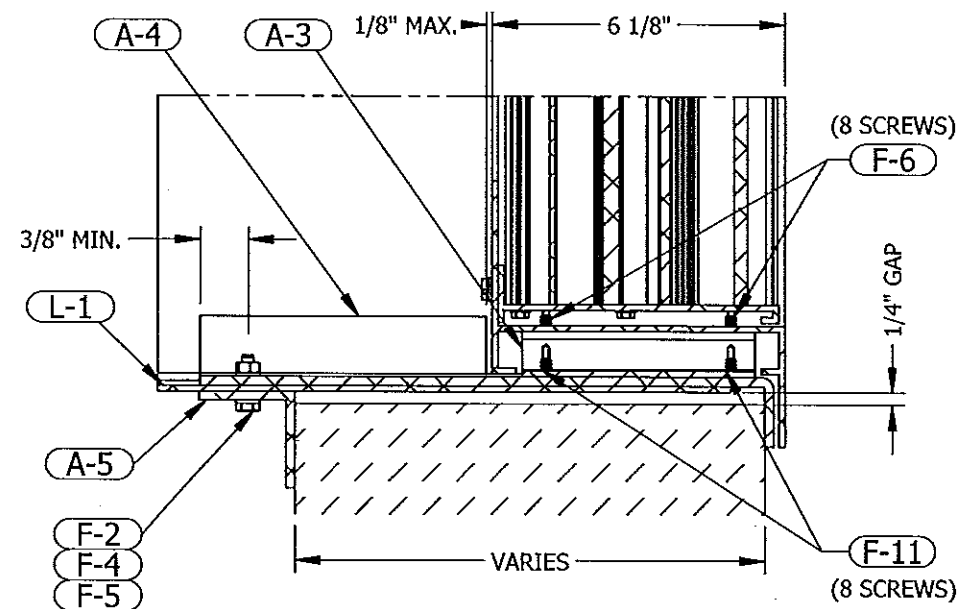


INTERIOR ELEVATION

FLANGED SINGLE SECTION HIGH $\frac{H}{10}$ ALL CONDITIONS
 $\frac{3}{4}'' = 1'-0''$ 10



FLANGED TOP & BTM MOUNT DETAIL $\frac{18}{10}$ WITH SLEEVE - ALL CONDITIONS
 $3'' = 1'-0''$ 4, 10, 12



FLANGED TOP & BTM MOUNT DETAIL $\frac{19}{10}$ WITH SLEEVE - ALL CONDITIONS
 $3'' = 1'-0''$ 10, 12

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37\"/>

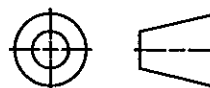
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ± 0.030
X.XX ± 0.015
X.XXX ± 0.010
ANGLE $\pm 1^\circ$
FRACTION $\pm 1/16$

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

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DRAWING DESCR: SINGLE SECT WIDE X SINGLE SECT HIGH - FLANGED SLEEVED ASSY - ALL

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 10 of 15

CHK'D BY: NW

SCALE: 3/4\"/>

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

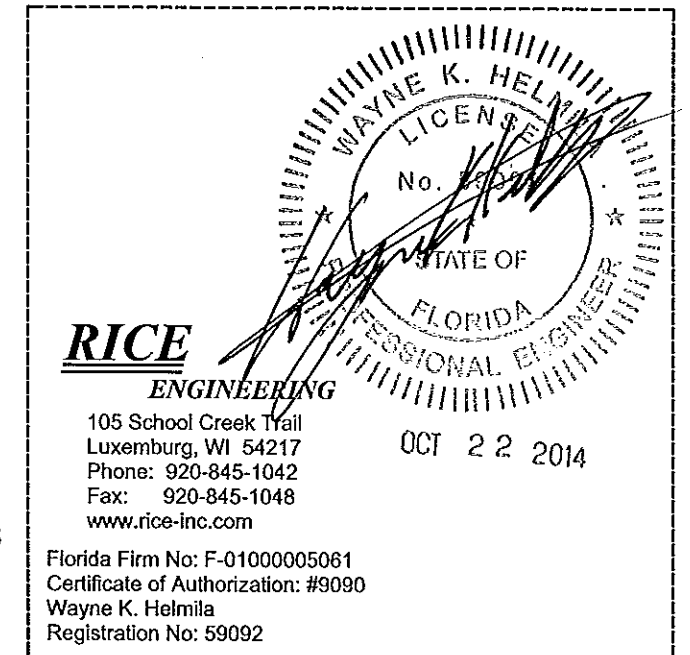
DRAWING NUMBER

ECV-645-MD NOA

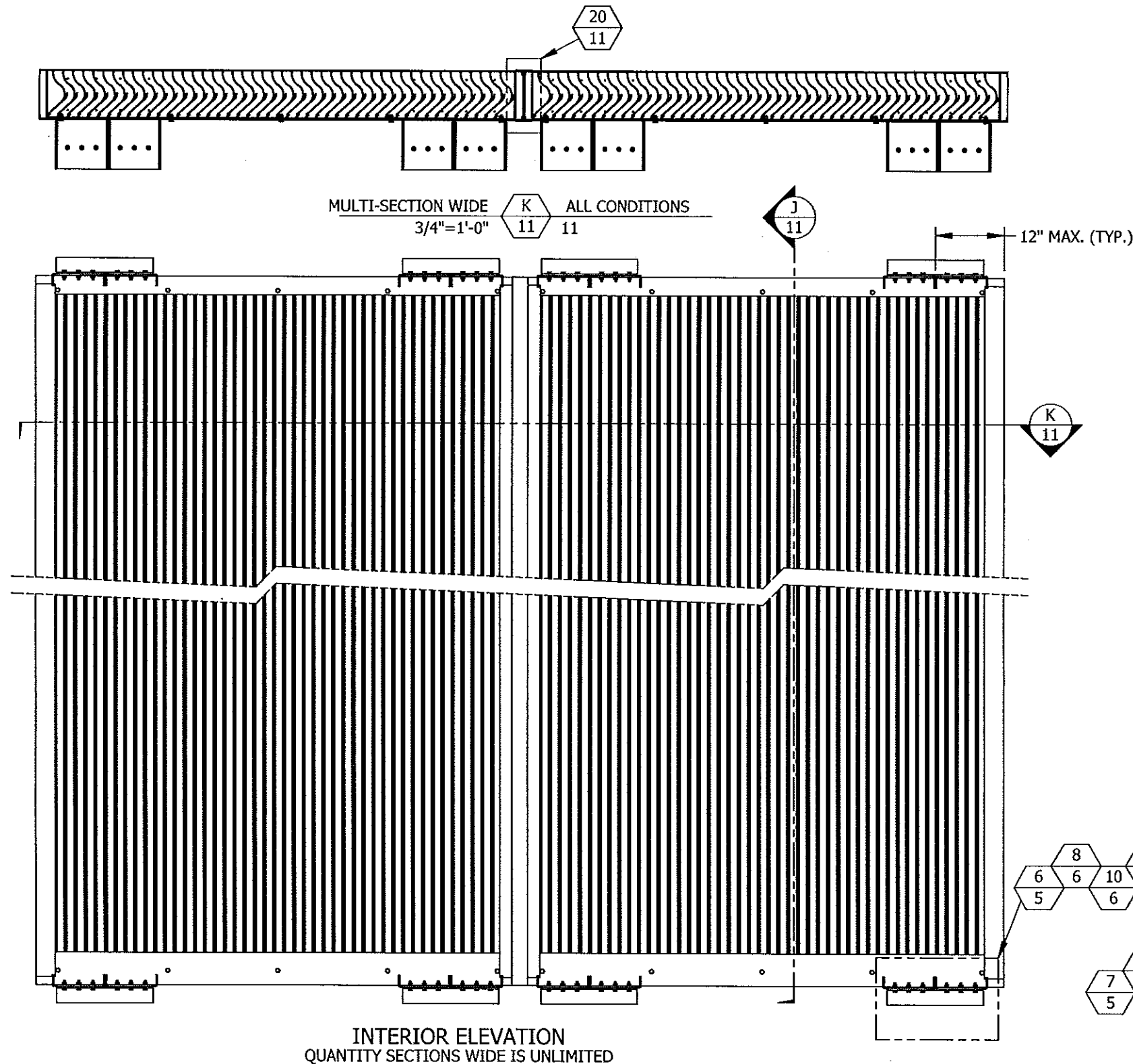
SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSEMBLY WITH SLEEVE - ALL CONDITIONS

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0605.11
Miami Dade Product Control
By [Signature]

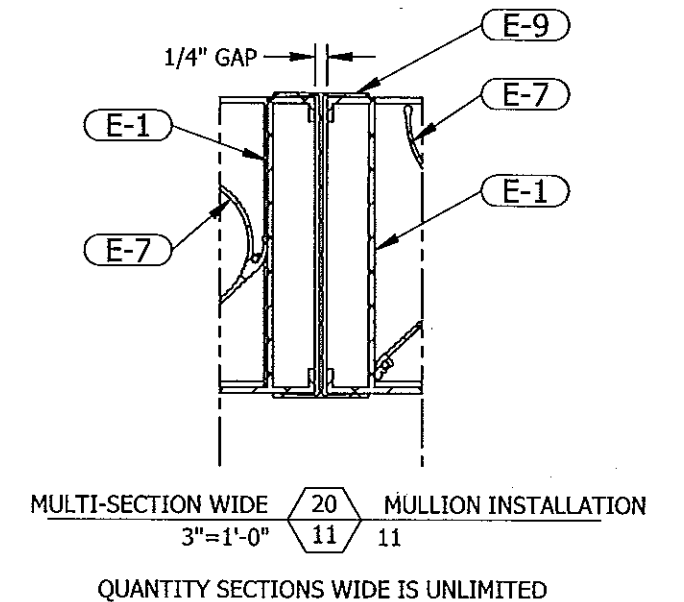
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MULTI-SECTION WIDE X SINGLE SECTION HIGH - ALL CONDITIONS



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Florida Building Code
Date 01/22/2015
NOA# 14-0605-11
Miami Dade Product Control
By *[Signature]*

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WAYNE K. HELMILA
LICENSED PROFESSIONAL ENGINEER
No. 59092
STATE OF FLORIDA

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920-845-1042
Fax: 920-845-1048
www.rice-inc.com

OCT 22 2014

Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS ON LOUVER SECTIONS BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



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DRAWING DESCR: MULTI-SECTION WIDE X SINGLE SECTION HIGH - ALL CONDITIONS

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 11 of 15

CHK'D BY: NW

SCALE: 3/4"=1'-0"

DRAWN BY: LGH

ORDER NUMBER

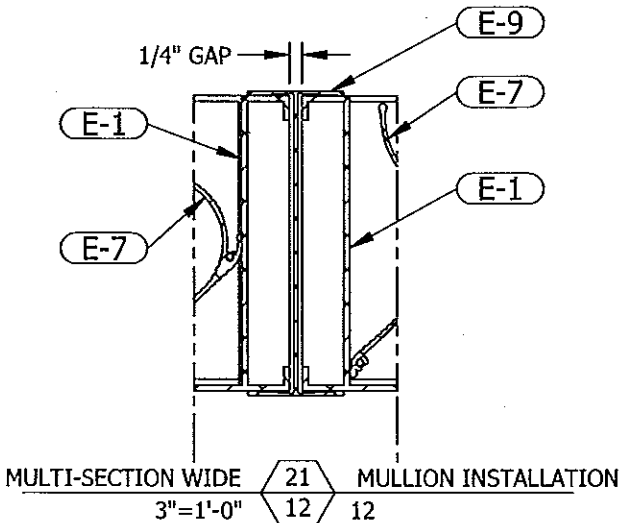
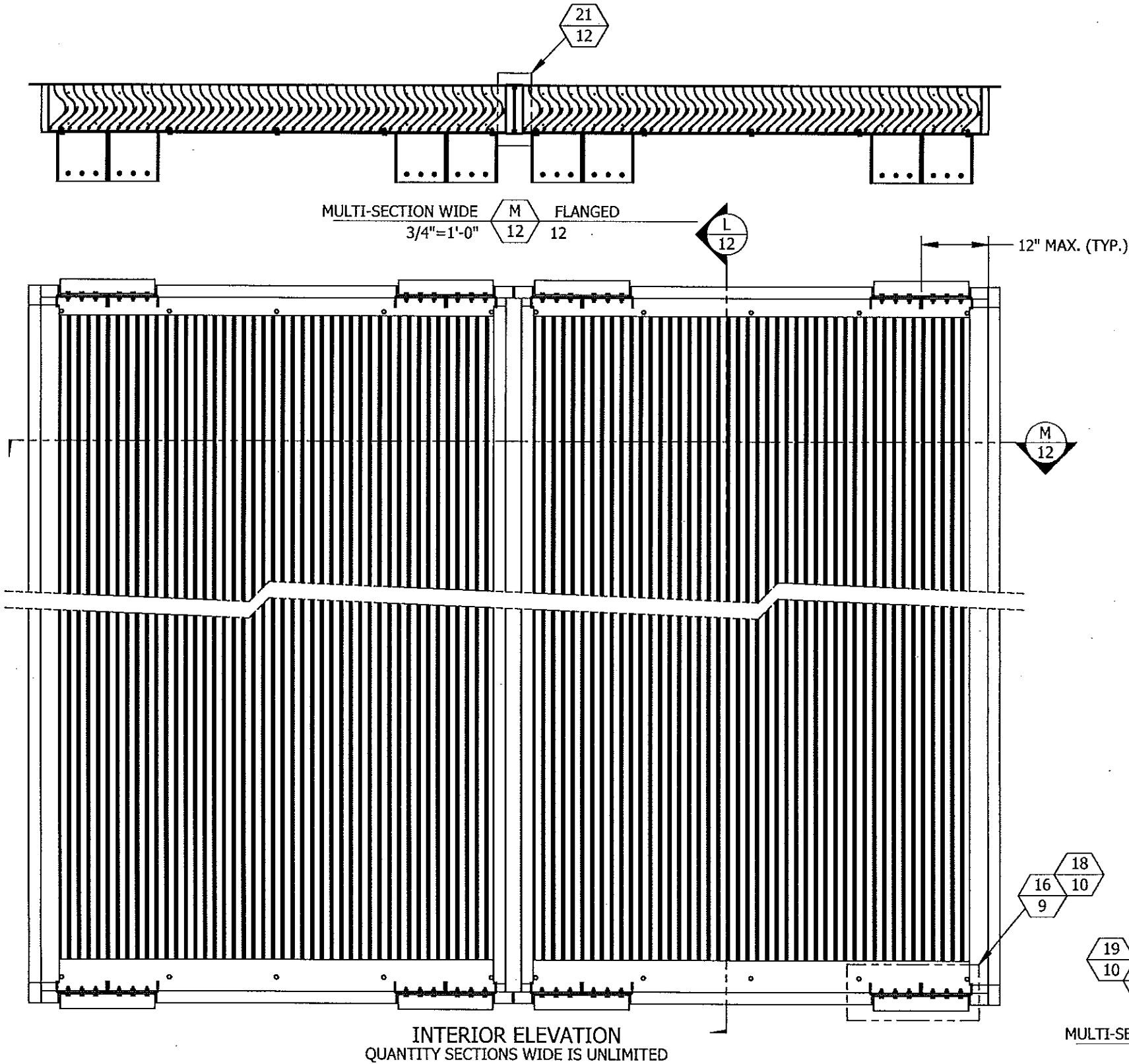
P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - POTTORFF REV. 5\

MULTI-SECTION WIDE X SINGLE
SECTION HIGH - FLANGED - ALL CONDITIONS



QUANTITY SECTIONS WIDE IS UNLIMITED

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Florida Building Code
Date 8/27/2013
NOA 14-0005-1
Miami Dade Product Control
By [Signature]

INTERIOR ELEVATION
QUANTITY SECTIONS WIDE IS UNLIMITED

MULTI-SECTION WIDE L FLANGED
3/4"=1'-0" 12 12

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS ON LOUVER SECTIONS BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

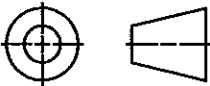
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
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X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF®

DRAWING DESCR: MULTI-SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSY - ALL

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 12 of 15

CHK'D BY: NW

SCALE: 3/4"=1'-0"

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - POTTORFF REV. 5\

PART NO: E-1
PART NAME: LOUVER JAMB,
EXTERIOR
MATERIAL: MINIMUM 0.081" THICK
6063-T6 EXTRUDED
ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-2
PART NAME: LOUVER JAMB,
EXTERIOR, FLANGED
MATERIAL: MINIMUM 0.081" THICK
6063-T6 EXTRUDED
ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-3
PART NAME: LOUVER HEAD,
EXTERIOR
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-4
PART NAME: LOUVER HEAD,
EXTERIOR, FLANGED
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-5
PART NAME: LOUVER SILL,
EXTERIOR
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-6
PART NAME: LOUVER SILL,
EXTERIOR, FLANGED
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

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Florida Building Code
Date 01/22/2015
NOA# 12-0605.11
Miami Dade Product Control
By

PART NO: E-7
PART NAME: BLADE
MATERIAL: 0.081" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

BILL OF MATERIALS

PART NO: E-8
PART NAME: LOUVER HEAD / SILL,
INTERIOR
MATERIAL: 0.125" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

PART NO: E-9
PART NAME: MULLION
MATERIAL: 0.081" THICK 6063-T6
EXTRUDED ALUMINUM
SCALE: 6"=1'-0"

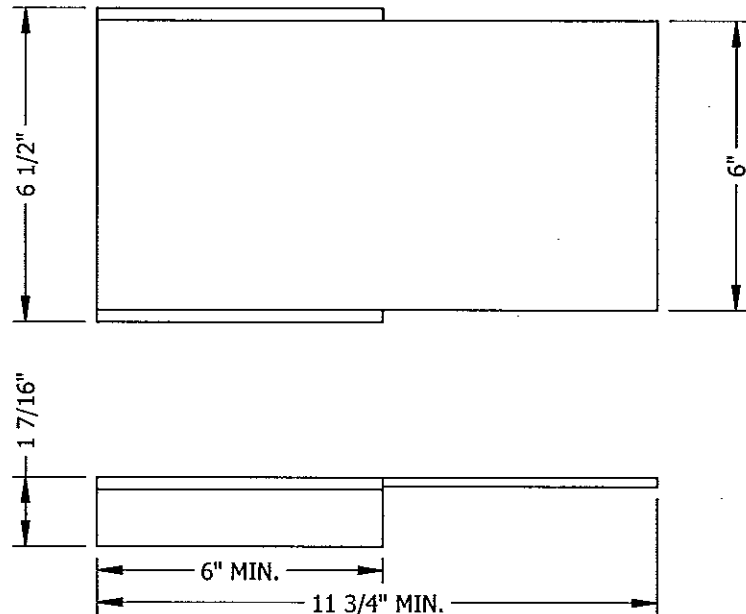
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RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920-845-1042
Fax: 920-845-1048
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092
OCT 22 2014

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.				5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110		PCI INDUSTRIES DOING BUSINESS AS POTTORFF		DRAWING DESCR: BILL OF MATERIALS			
TOLERANCE UNLESS NOTED: X.X ±0.030 X.XX ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16				THIRD ANGLE PROJECTION 				PROJECT: ECV-645-MD			
MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS								LOCATION:			
								CUSTOMER:			
								PROJ. MGR:		DRAWN BY: LGH	
								DATE: 8/27/2013		CHK'D BY: NW	
								SHEET: 13 of 15		SCALE: AS NOTED	
								ORDER NUMBER		P.O. NUMBER	
										DRAWING NUMBER	
										ECV-645-MD NOA	

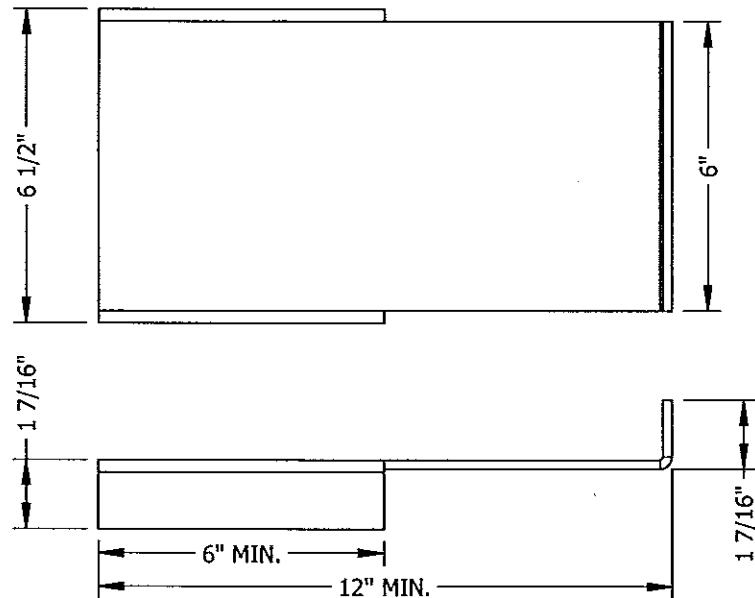
BILL OF MATERIALS

PART NO: A-1
PART NAME: FORMED CLIP, WITHOUT FRONT FLANGE
MATERIAL: 3/16" THICK
5052-H32 FORMED ALUMINUM
SCALE: 3"=1'-0"

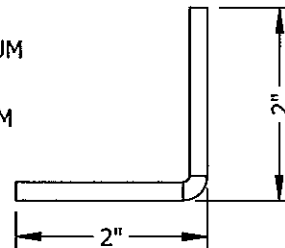


PART NO: A-4
PART NAME: FORMED CLIP WITH FRONT FLANGE
MATERIAL: 3/16" THICK
5052-H32 FORMED ALUMINUM
SCALE: 3"=1'-0"

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0605.11
Miami Dade Product Control
By [Signature]



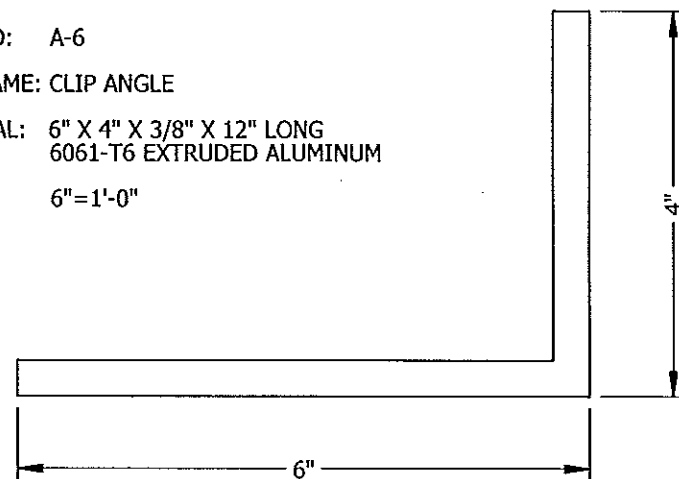
PART NO: A-5
PART NAME: RETAINING ANGLE
MATERIAL: 1/4" THICK X 12" LONG
6063-T5 EXTRUDED ALUMINUM
OR
3/16" THICK X 12" LONG
5052-H32 FORMED ALUMINUM
SCALE: 6"=1'-0"



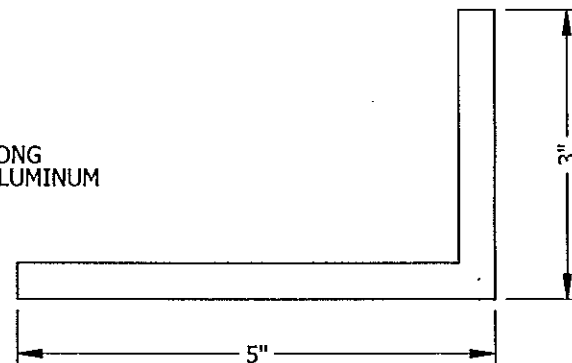
PART NO: L-1
PART NAME: SLEEVE
MATERIAL: MIN. 20 GA. THICK
5052-H32 SHEET ALUMINUM
OR
MIN. 20 GA. THICK GALVANIZED,
304 STAINLESS, OR 316 STAINLESS
STEEL SHEET
SCALE: 6"=1'-0"



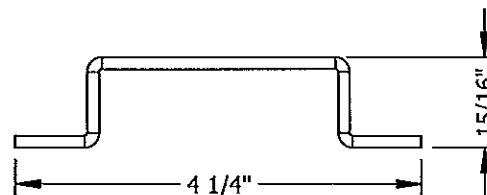
PART NO: A-6
PART NAME: CLIP ANGLE
MATERIAL: 6" X 4" X 3/8" X 12" LONG
6061-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



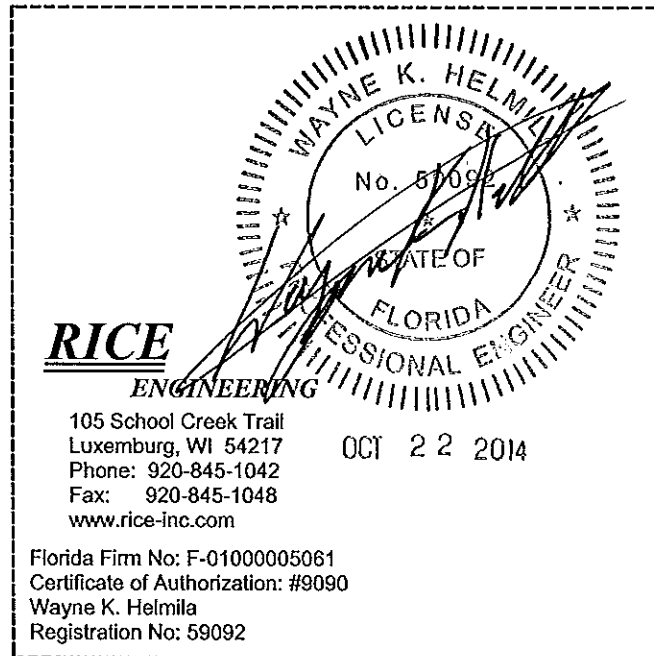
PART NO: A-2
PART NAME: CLIP ANGLE
MATERIAL: 5" X 3" X 3/8" X 12" LONG
6061-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



PART NO: A-3
PART NAME: HAT CHANNEL
MATERIAL: 1/8" THICK X 5 1/4" LONG
5052-H32 FORMED ALUMINUM
SCALE: 6"=1'-0"



P.E. STAMP



REV.	DESCRIPTION	DATE	DRAWN BY
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
1	INITIAL RELEASE	8/26/2013	LGH

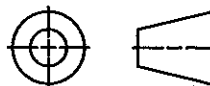
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

DRAWING DESCR: BILL OF MATERIALS

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 14 of 15

CHK'D BY: NW

SCALE: AS NOTED

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - POTTORFF REV. 5\

BILL OF MATERIALS

MISCELLANEOUS FASTENERS	
PART NO	DESCRIPTION
F-1	#10-24 X 3/4" LONG, 6 LOBE DRIVE, 410 S.S., HWH, "F" POINT THREAD CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED & WAXED, NO SERRATIONS UNDER HEAD, MADE IN U.S.A.
F-2	WASHER, FLAT, 1/4" I.D. X 5/8" O.D., 18-8 S.S.
F-3	BOLT, HEX HEAD, 1/4-20 UNC X 3/4" LONG, 18-8 S.S.
F-4	NUT, HEX, 1/4-20 UNC, 18-8 S.S.
F-5	BOLT, HEX HEAD, 1/4-20 UNC X 1" LONG, 304 S.S.
F-6	#12-14 X 3/4" LONG, HWH, 410 S.S. SELF-DRILLING TEK MACHINE SCREW
F-7	#12-14 X 1" LONG, HWH, SELF-DRILLING TEK MACHINE SCREW
F-8	5/8" x 5-1/2" HILTI KWIK BOLT III EXPANSION ANCHOR
F-9	1/2" X 3-1/2" LAG BOLT W/FLAT WASHER , 3" MINIMUM EMBEDMENT
F-10	1/2" x 5-1/2" HILTI KWIK BOLT TZ EXPANSION ANCHOR
F-11	#12-14 X 3/4" LONG FLAT HEAD, 410 S.S. SELF-DRILLING TEK MACHINE SCREW

P.E. STAMP

WAYNE K. HELMILA

LICENSE

No. 59092

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

RICE

ENGINEERING

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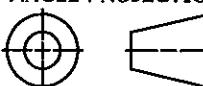
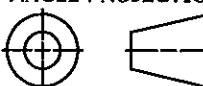
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Date 01/22/2015
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NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHOULD BE OF CORROSION-RESISTANT STEEL (STAINLESS, HOT-DIP GALVANIZED, OR ZINC-PLATED)

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